

AMERICAN NURSERYMAN

The Nurseryman's Forte: To Make America More Beautiful and Fruitful

APRIL 1, 1961

Serial Dept.

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The Nurseryman's Forte: To Make America More Beautiful and Fruitful

VOL. CXIII, NO. 7

APRIL 1, 1961

Founded 1904

With which was merged 1939
THE NATIONAL NURSERYMAN
Established 1893



Published on the
first and fifteenth
of each month by the
AMERICAN NURSERYMAN
PUBLISHING COMPANY
343 South Dearborn Street,
Chicago 4, Illinois
Telephone: WAbash 2-9011



Subscription Price:
\$5.00 per year;
Outside U. S. A., \$6.00;
Single copies, 25c.
Second-class postage
paid at Chicago, Ill.



Advertising Rates
On Application.
For Closing Dates
See Next Page.



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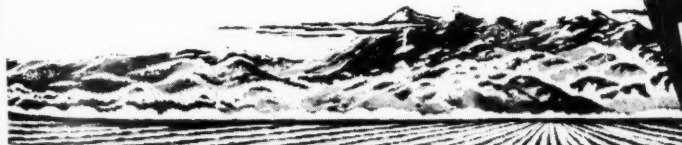
ness. Volume and profit are up and going higher. If you want your share you must have the stock to meet the demand. Order your rosebushes now while we're still shipping. A good assortment of grades 1 and 1½ in patents and nonpatents is still available. Remember, the best is always cheaper in the long run.

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The Mirror of the Trade

Editorial

EMPLOYMENT PARADOX

For what is believed the first time in history, the country faced a paradox in employment when the number of persons employed hit a February high of 64,655,000 while the persons out of work totaled 5,705,000, the highest jobless rate since the summer of 1941.

When the federal Department of Labor reported the figures early in March, officials said they were carefully studying the unprecedented development. Their first explanation was that America is a growing country. The statement recalled numerous predictions last year as to what would happen to demand for products in various industries as the population climbed.

Obviously, in the desire to profit by such demand, productive capacities were increased, not only in major industries, but also in other lines. But the ever-present problem of distribution was not given sufficient attention, and oversupplies developed.

The problem is no new one to nurserymen, who can recall how the haste of some in the industry to produce an item, or group of items, that meets a strong demand can turn the situation into a glut, particularly if favored by a good crop year. Indeed, the problem of distribution and marketing remains foremost in this field; market surveys develop figures that gardening has outstripped other important pastimes in favor, so that public expenditures approach or reach the billion-dollar mark. Yet consumer surveys indicate that only one homeowner out of four is a purchaser of nursery stock, and that annually in a small amount. Production would be no problem for nurserymen if they could find a way to boost the average public purchase of their merchandise to but twice the present amount.

Just so, production would be no

problem in this country, nor employment either, if political and other leaders, instead of their preoccupation with world conflicts, would find a way to distribute profitably the crops and merchandise for which millions of persons in this and other lands hunger and crave.

NOW PLANTS AS PREMIUMS

Once flower seeds were offered to housewives who purchased a certain brand of flour; then gladiolus bulbs were given away with soap, and now buyers of ReaLemon are offered, with one label, red, pink and white miniature roses at 50 cents per bush; blue and pink African violets at 50 cents per plant, or three geraniums, red, pink and white, three for 50 cents.

Plants will be shipped live, direct to the consumer, and packaged to insure safe arrival, customers are assured. Plants will be accompanied not only by cultural instructions, but a guarantee to grow to customers' satisfaction or the purchase price will be refunded.

"Success is predicted for this offer," reads the announcement, "due to the wide appeal of live plants and the tremendous amount of money spent in the horticultural business each year. Current statistics show that home gardening sales in seeds, bulbs and live plants are over one billion dollars a year and that there are more dollars spent in the United States on gardening than on all the following combined: Books, golf, fishing and phonograph records."

BILLION-DOLLAR FIGURE

Above was quoted the figure of a billion dollars a year for seeds, bulbs and plants. Again the billion-dollar figure appears in Dr. J. E. Howland's talk to his company's field organization on Scott's new products for the rose garden. He said:

"Plenty of people have wanted success with roses! Thirty million homeowners try each year. Sales of rosebushes in 1960 reached \$100,000,000. This is 10 per cent of all the money spent on garden supplies in 1960. It likely equals the total spent on lawns in 1960."

Do garden supplies include seeds, bulbs and plants, or just the equipment, gadgets, fertilizers, insecticides, etc.? Maybe the estimate of rose plant sales is close to the mark, but we doubt that as many as 30,-

000,000 homeowners bought them, for that would make the average purchased only \$3.33.

Anyway, commercial horticulture is getting into the high brackets when a billion dollars is so easy a figure to quote.

MOTHERS' DAY

The amount of benefit which can be derived from Mothers' day by the retail nurseryman or garden shop operator depends upon his location, operations and ingenuity. If his operations include offerings of some florists' merchandise, he will be more successful in his advertising to draw buyers. If his location is such that displays will attract the attention of passers-by, that will be an advantage. Otherwise he will need to depend more upon advertising and his ingenuity.

Even if he does not ordinarily handle flowering plants or cut flowers, he can make capital of the holiday by advertising rosebushes in containers as a gift to mother which will provide blooms throughout the summer. He can display, with a group of container rose plants, a vase or two of cut roses from the florist's to lend color and show the blooms which mother can enjoy later. Similarly can be displayed and advertised other flowering shrubs. If nothing better can be found to provide color, pictures of the shrubs in bloom can be mounted and featured in the stock display.

Several types of trees can be sold at Mothers' day. Most popular are flowering trees, "Pink flowers for the living," but other trees have been planted as suitable gifts in different localities.

The nurseryman should know the historic trees which have been planted for mothers, which have been detailed in a publication of the United States Department of Agriculture and listed in the publicity material of the A. A. N.

Early preparation will make possible active promotion, and the ingenuity of the individual operator will measure the returns at the holiday.

NEW quarters of the Virginia department of agriculture division of plant industry are at 203 North Governor street, room 325, Richmond 19, Va. The division formerly had its offices on Bank street, Richmond.

Record Crowds Thrill to Flower Gardens At Chicago Show

By Donald Curda



Rose garden in full bloom, a spectacular color entry at the Chicago flower show by the Jackson & Perkins Co., Newark, N. Y., displayed 35 varieties and tree roses and utilized terrace and fountain features in the design.

Moving to McCormick Place, the vast new exposition center on Chicago's lake front, for its third annual display, the Chicago world flower and garden show broke attendance records on its opening week-end, March 11 and 12. The 2-day total of 75,000 viewers was a new high for the show and, according to Frank Dubinsky, show manager, a record for the opening week-end of any similar exhibition in the United States.

Sponsored by Chicago Flower & Garden Show, Inc., in association with the Chicago Horticultural Society, the event was staged with the co-operation of many regional and national horticultural groups, including the Illinois State Nurserymen's Association, the Ornamental Grow-

ers Association of Northern Illinois, the Holly Society of America and the Texas Rose Research Foundation.

Harold O. Klopp, Palatine, Ill., handled the over-all design of the show, which covered the 10 acres of the main floor of the exposition center. A more extensive use of lawn areas was noted in this year's gardens, all of the sod being supplied by Warren's Turf Nursery, Palos Park, Ill.

Gaining from its new quarters the advantages of excellent lighting and an unbroken sweep of floor space throughout the main exhibit area, the show profited from a much greater impression of spaciousness than was formerly possible. The feature display gardens were spread out before the visitors in a broad pano-

rama, through which wide aisles facilitated the flow of traffic.

About half of the available space was devoted to the garden settings, with more than 125 exhibitors, including horticultural groups and manufacturers of garden supplies and equipment, displaying in the north half of the hall. A garden theater, in which lectures, demonstrations and films were presented, adjoined the main hall.

Major Awards

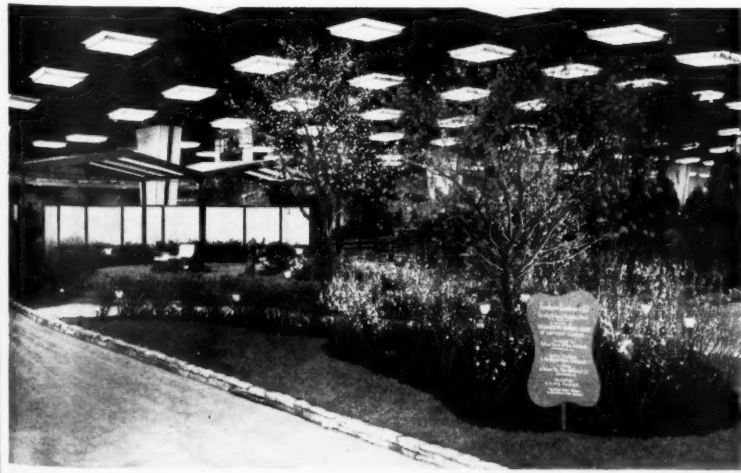
The Governor Kerner silver bowl was awarded to the twin gardens exhibited by the Ornamental Growers Association of Northern Illinois, which effectively demonstrated the results to be achieved with intelligent planning and adequate spacing of plant materials.

Divided by one of the main aisles, the gardens each featured similar plantings framing a patio and bordering the path that led to it. In one of the gardens, stock of typical planting size was used, the path being flanked at the front of the display with plantings of flowering crab apple and flowering plum, with a ground cover of winter creeper.

The path was bordered on one side with dwarf euonymus and on the other with Hetz juniper interplanted with spring bulbs. More spring bulbs, together with Alpine currant, were used under the apple tree at one corner of the patio, which was edged on two sides with spreading yew and on the third with flowering almond.

The same planting as it would appear five years later was displayed in the adjoining garden, with the stock grown to specimen size and the trees, in spectacular full bloom,

[Continued on page 136]



A matured landscape planting shown at the Chicago flower show by the Ornamental Growers Association of Northern Illinois, to be compared by viewers with an identical planting scheme occupying a position on the opposite side of the aisle, where the material was all of original planting size. A 5-year developing period was represented in the finished effect shown here.



Swimming pool garden shown at the southeastern flower show by the Howell Landscape Co., Sanford, N. C.

First Major Garden Show Staged in the Southeast

By Thomas Hall

The southeastern flower and garden show was officially opened Friday, February 24, with the planting of an American sycamore tree outside the entrance of the State Fair Arena, Raleigh, N. C., by Lieutenant Governor H. Cloyd Philpott. Mrs. J. B. A. Daughtridge, Rocky Mount, president of Garden Club of North Carolina, Inc., cut a ribbon of red roses, and the largest flower garden show south of Washington, D. C., was open to the public.

The North Carolina Association of Nurserymen and the North Carolina Commercial Flower Growers' Association formed a new corporation, Southeastern Flower and Garden Show, Inc., to stage the event, with Hugh Vann, executive secretary

of the N. C. A. N. and James Melton, a director of the growers' group, as cochairmen. Assistance was given by the following organizations: The North Carolina Camellia Society, the North Carolina Orchid Society, Garden Club of North Carolina, Inc., and the North Carolina Florists' Association.

Designed to demonstrate the achievement of maximum beauty in gardens through proper selection and planting of flowers and shrubs, the show featured 25 professionally designed and planted "Gardens for Living," which provided 10,560 square feet of springtime floral beauty.

Curved brick walls about two feet high edged these gardens in which

some 200 flowering trees and shrubs, over 3,000 bulbs, roses and a large number of flowering plants were used. More than 5,000 orchids were featured in the orchid gardens displayed in the main lobby. The North Carolina Camellia Society converted the east main lobby into a flowering garden of camellias.

Garden Club of North Carolina, Inc., had over 2,000 square feet of floral display. The theme for exhibit sponsored by the North Carolina State Florists' Association was "Magic Moments with Flowers." The association had 10 co-ordinated exhibits covering about 1,500 square feet of space in the lower north lobby of the arena.

Displays Not Competitive

The sponsoring trade associations decided, in the interest of all, that none of the 25 main gardens would be judged. This decision was due to the professional services of Godwin & Bell, Raleigh landscape architects, who designed the complete show.

A Japanese garden landscaped by Knox Porter Nursery, Rocky Mount, was displayed against a teahouse background and was enclosed on two sides with a solid bamboo fence. Located near the center of the garden, an elongated pool was outlined by dark wood rounds which gave it a distinct outline against the white gravel that covered the garden floor.

Along the fence, five large bamboo plants provided a framing effect for the house. The flowering Japanese quince and Japanese cherry were in full bloom. These plants were placed opposite each other on the outer edge of the garden. The walkway leading from the pool to the teahouse porch, the ceremonial washing stone, the Japanese stone lantern and native sandals on the porch steps were all integrated with appropriate plant materials to give

[Continued on page 91]



Japanese garden and teahouse, a feature display in the southeastern flower show, staged by the Knox Porter Nursery, Rocky Mount, N. C.



Mountain garden in the flower show at Raleigh, N. C., staged by the Aldridge Rhododendron Nursery, Crossnore, N. C.



New York flower show displays: Left, lawn and swimming pool overlooked by raised flagstone terrace was the entry of Rosedale Nurseries; right, a patio for a contemporary home, by Landscape Associates—Dalsimer, Inc., featured a "pool" of shade from trees at center and a pool and fountain at one side.

Major Flower and Garden Shows

Nurserymen Across the Nation Awaken Public's Interest in Home Landscaping

The major spring flower shows this year again followed close on the heels of some of winter's most blustery weather in the north, while the largest one south of Washington, D. C., had accommodating conditions that permitted outdoor planting to mark the occasion. With or without the urging of protracted cold and snow, the flower shows held at the end of February and in early March met maximum anticipations of attendance, with a record number for the two opening days at the Chicago exhibition, reported elsewhere in this issue, and a crowd that "delighted" the sponsors of the southeastern event, at Raleigh, N. C., also reported on other pages of this magazine. Following here are reports of the New York, Philadelphia, Cleveland and Los Angeles shows. Complete reports of the major flower shows at Washington, D. C., and Boston, Mass., will appear in the next issue.

NEW YORK FLOWER SHOW

Unanimously acclaimed one of the finest, if not the finest, flower spectacular ever staged in the New York area, the 44th International flower show provided a respite for winter-weary garden enthusiasts at the New York Coliseum, New York, March 4 to 12.

Officials and veteran observers of both sponsoring organizations, the New York Florists' Club and the Horticultural Society of New York,

were pleased with the prospects of an attendance approaching the 250,000-mark. An innovation this year was the extension of the show to run nine days, including two complete week-ends, instead of the customary eight days.

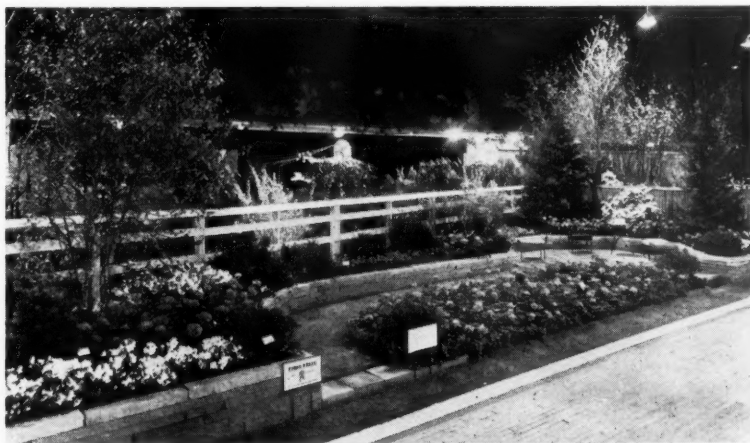
Contrary to last year's opening day, the weather this year was clear and balmy, with Sunday's attendance the largest ever recorded during the 44-year history of the show, which was formally opened by Senator Kenneth B. Keating, New York.

Despite a winter season which has been termed the worst in weather bureau history, material for the dis-

play gardens and allied exhibits was in excellent condition, and exhibitors had little trouble setting up displays well in advance of opening day. Landscape architect James Fanning designed the 2-floor layout to coordinate mass displays of competitive cut flowers and plants to integrate with the over-all show theme, which was "Gardens for Outdoor Living." The main floor held the major garden displays, each with a curved frontage to facilitate traffic movement.

The lavish and well-planned gardens on the main exhibition floor of the Coliseum again dominated spec-

[Continued on page 46]



White birch and two concolor firs shaded and accented the sitting area in this informal garden planned at the Cleveland flower show by Lieuhaven Gardens, Inc., Westlake, O.

Sorting the Woody Ornamentals

Many Forms of Four Arborvitae Species Grown in the Trade

By Donald Wyman

Horticulturist, Arnold Arboretum

The arborvitae have long been staple plants in most nurseries. Easily rooted and quickly grown, they make salable plants in a short time. Because of this popularity, it is no wonder that at least 50 varieties are being offered by American growers at the present time, while in various parts of this country and Europe over 150 varieties are being grown. Both the native white cedar, or American arborvitae, *Thuja occidentalis*, and its Oriental counterpart, *T. orientalis*, have produced many varieties.

The American arborvitae is native throughout the northern half of eastern North America, so it is no wonder that the early settlers began using it as an ornamental. Introduced into Europe from America in the 16th century, it has been assiduously grown by European nurserymen, and they too have selected many new forms, as have American growers. Well over 150 forms have been named, and new ones are still ap-

pearing. It is high time that this group was carefully assessed. In such an article as this, it is impossible to include all the varieties named in the past, many of which have disappeared from cultivation, but here have been segregated 37 varieties that are recommended, 78 varieties that are no longer recommended and 42 varieties which should have further trial. The author will be grateful for any information about the current performance of arborvitae in the last-named group.

Thuja occidentalis and its varieties are thought of as suitable in hardiness zones 2 to 5 inclusive; that is, from the Canadian provinces down to southern Pennsylvania. From there south to Florida and Texas, the Oriental arborvitae is commonly grown. This is also popular on the Pacific coast from California to Washington. There are practically no ornamental varieties of the western arborvitae, *Thuja plicata*, being grown in large

numbers in America, although a few have been named and eventually may well be grown in quantity.

American Arborvitae

Most growers know well the distinctions between the American and the Oriental arborvitae and the limits of their usefulness. Although the American species and its many varieties have been, and still are, extremely popular with growers, chiefly for economic reasons, I do not think these evergreens are among our best ornamentals.

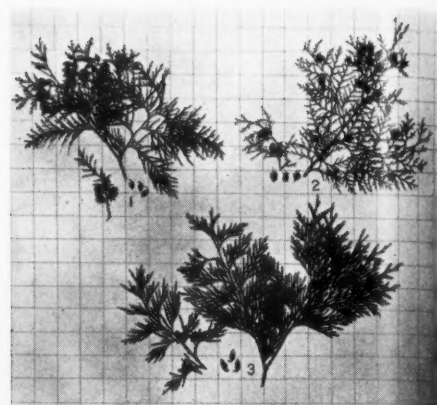
In the first place, most of the *T. occidentalis* varieties are not even evergreen—they turn brown in the late fall and stay that way all through the winter. This characteristic may not hold in all areas where they are grown, but it certainly holds true in New England.

Secondly, they must be grown in areas with considerable atmospheric moisture as well as soil moisture; otherwise, they do not present a good appearance. In areas with hot summers and long droughts they quickly show their lack of adaptability with dead branches here and there. In dry areas, serious infestations of red spider can ruin plants.

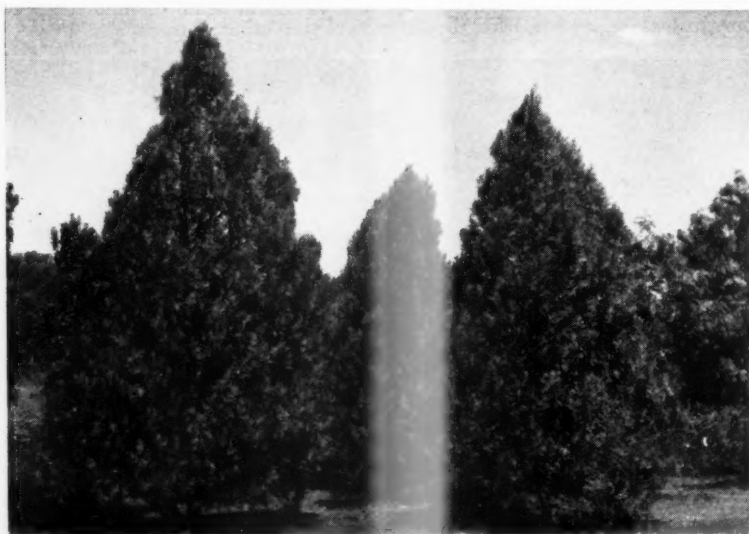
Then too, many of these varieties do not grow old gracefully. Their habit of growth, resulting in several main branches or trunks at the base, is such that wind, snow, ice or decay can break one main branch and create such a hole in the general form of the plant that it often can never properly grow back into a good ornamental specimen again.

Unfortunately, also, there is a considerable mix-up in the names of some of these varieties, which fac-

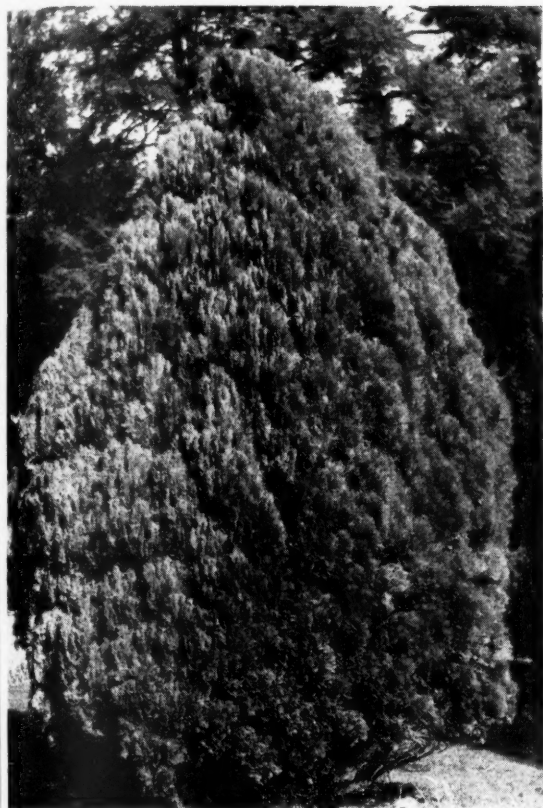
The illustrations accompanying this article were made from photographs supplied by the Arnold Arboretum, Jamaica Plain, Mass.



Foliage of thuja species: (1) *T. occidentalis*, (2) *T. orientalis*, (3) *T. plicata*.



Thuja Orientalis



Thuja orientalis growing at the Huntington Botanic Gardens, Pasadena, Calif., showing the vertical plane branching that is evident in some of the younger forms of this species.



Thuja occidentalis lutea, one of the few colored-foliage forms of American arborvitae that keep their good color through the full growing season into the fall.

was readily admitted by several generously co-operating nurserymen when I requested information for the preparation of this article; sometimes one clone is listed under two or three names in different nurseries. One nurseryman, listing two varieties about which I wanted specific information concerning their differentiation, replied that he honestly did not know how they varied and that apparently they were similar, but since there was a "demand" for both types he grew them!

Most of the *T. occidentalis* varieties are not nearly so popular now as they were 50 or 75 years ago. With the introduction of many excellent exotic trees and shrubs from the Orient and from Europe since the turn of the century, these arborvitae have gradually taken a back seat as truly "old-fashioned" ornamentals, although some growers still carry the older varieties, many of which are known to be second-rate evergreens today. It would seem, then, that the *T. occidentalis* group, at least, are confused, often old-fashioned, second-rate ornamentals, for which there is still some demand.

With the large home-building program in Florida, southern California

and other mild parts of the United States, the more recently available varieties of *T. orientalis* have become highly popular. Most of these are not hardy in the upper half of the United States, but are widely planted in the south. The species itself is a tree up to 50 feet tall, native in northern China and Korea, but the dense-branching shrubby forms often have their branches all carefully arranged

in vertical planes. Then also, the fruits have small curved "horns," while those of the American arborvitae are small, simple cones.

Outstanding among the Oriental shrubby forms are those with yellow or blue foliage, both of which types are widely popular. Because they are usually grown in areas lacking severe winter cold, they may well hold their

[Continued on page 67]



Clipped Hedge of *Thuja occidentalis* at Longwood Gardens, Kennett Square, Pa.



Officers of the Rhode Island Nurserymen's Association for 1961, shown at the annual R. I. N. A. meeting held February 23 at the Sheraton-Biltmore hotel, Providence: Left to right, A. E. Mendonca, vice-president; Anthony Forcina, outgoing president; Keeran J. Murphy, re-elected treasurer; Angelo Savella, newly elected president, and Anthony Williams, re-elected secretary.

Act To Revise Nursery Laws At Rhode Island Convention

By Anthony Williams

Election of officers for 1961, submission of proposed revisions in the state's nursery laws and presentation of American Association of Nurserymen "Plant America" awards were the high points of the 42nd annual meeting of the Rhode Island Nurserymen's Association, held February 23 at Providence.

Association members, who, together with their guests, brought attendance at the Sheraton-Biltmore hotel to 115, elected Angelo Savella, Bald Hill Nurseries, Pontiac, as president for the coming year and named A. E. Mendonca, Mendonca Nurseries, Middletown, vice-president. Anthony Williams, Cranston, and Keeran J. Murphy, East Providence, were re-elected to the posts of secretary and treasurer, respectively. Members of the 1961 executive committee are Joseph Silveira, Barrington; Robert Stewart, Jr., Wakefield, and V. James Vanicek, Jr., Newport.

Retiring President Anthony Forcina, Johnston, called the meeting to order and delivered his president's address, in which he thanked his fellow officers and members for their co-operation during the past year. Special praise was given to Kenneth Lagerquist for his excellent work in gaining radio and newspaper publicity for the nurserymen of Rhode Island.

Henry A. L. Brown, chairman of

the membership committee, recommended the approval of 17 applicants for membership, one of the largest groups of new members to be accepted into the association in some time.

Nursery Law Revisions Reported

The main topic brought up for consideration at the business meeting was the proposed revisions in the state nursery laws of Rhode Island. The R. I. N. A. committee, consisting of Henry Savella, Anthony Williams, Jack Brownell, James Vanicek, Kenneth Lagerquist, Edward Pagliarini and D. M. Bruzzi, worked through the year with John Rego, state director of agriculture; Rudy D'Andrea, chief entomologist, and Mr. D'Andrea's assistant, to draft the revised nursery laws. The changes were presented to the members for their approval and submitted to the state legislature for enactment.

In an address entitled "Market Development and Publicity," James Vanicek discussed these promotional efforts as they relate to nurserymen, landscape contractors and garden center operators.

The "Plant America" awards were presented by F. Raymond Brush, A. A. N. executive assistant, to Donald Flynn, representing the Rhode Island Hospital Trust Co.,

East Greenwich; Conrad Green, Robinson, Green & Beretta, Providence, who designed the award-winning landscape, and Anthony Williams, representing Forest Hills Nurseries, Inc., Cranston, the landscape contractors.

William H. Wiley, dean of the college of agriculture and director of the agricultural experiment station, University of Rhode Island, Kingston, concluded the program with a report of research conducted by his staff during the past year.

GARDEN GROUP DIRECTOR

Robert P. Wintz, who has been conducting an advertising agency under his own name, specializing in horticultural accounts, has been appointed executive director of the Chicago Horticultural Society, sponsor of the third annual world flower and garden show at Chicago last month.

Mr. Wintz is a graduate of Colorado State University, has done extensive work in research in horticulture and is a member of the Garden Writers' Association of America. After four years in the Navy, Mr. Wintz joined the staff of George J. Ball, Inc., seed firm at West Chicago, Ill., as advertising manager and conducted a number of programs to advance interest in plants and seeds. Subsequently he formed his advertising agency.

CHANGE of firm name style to Verkade's Nursery, Inc., has been announced by Hendrik Verkade, president. The business was formerly operated at New London, Conn., as Verkade's Nurseries.



Anthony Williams, right, Forest Hills Nurseries, Inc., Cranston, R. I., receiving a "Plant America" award from F. R. Brush, A. A. N. executive assistant, at the Rhode Island meeting.

New Jersey Conference on Lawns

By Roy H. DeBoer

A 2-day meeting at Rutgers—the State University, New Brunswick, N. J., marked the third year for the conference sponsored jointly by Rutgers, the North Jersey Metropolitan Nurserymen's Association and the New Jersey Association of Nurserymen. The group convened at the fine facilities of the Collins Auditorium of the college of agriculture Thursday morning, March 2, a warm, clear day. This was the first good day for outdoor work for the season, and perhaps resulted in a slight attendance reduction. Nevertheless, close to 100 persons, mostly landscape contractors, attended.

Growth Conditions

The program began as scheduled, with Dr. R. B. Alderfer, of the Rutgers soils department, speaking on "Soil pH, Soil Compaction, Drainage and Nutrient Availability." He outlined some of the conditions necessary for germination and growth of plants and told some ways in which these conditions can be controlled. Plants need light, but different grasses require different amounts of light, he declared. The crab grass problem does not usually exist under shaded conditions, for example.

The problem of nutrients varies with the kind of soil. Nitrogen, phosphorus and potassium are deficient in many soils, and these are usually added in common fertilizers. Calcium and magnesium are also often deficient, and these are added in what is applied as ground or dolomitic limestone. He mentioned the minor elements, noting that their availability is greatly variable in various parts of the country. He strongly advocated having a soil test run before one starts a fertilizing program. He then suggested that fertility be built into a new lawn.

Availability Problem

Phosphorus and potassium are much more readily available to the roots of grasses if they are mixed into the top four to six inches of soil when the lawn is being built. These two necessary elements do not move readily in the soil and may take many years to work down into the soil if only applied on top. He noted experimental work showing that the downward movement of these elements amounts to a small fraction of an inch each year and advised the deep-mixing technique for lime ap-



Speakers at the recent nursery conference at Rutgers: Left to right, Roy H. DeBoer, Dr. D. A. Shallock, Dr. L. G. Merrill, Dr. R. E. Engel, Dr. William E. Snyder and Dr. H. W. Indyk, all of the university staff.

plications at the time of lawn construction.

Soil pH was the next area of discussion. It was noted that a pH of about 6.5 or just below neutral is necessary for good growth of most of the grasses. At low and high extremes, many of the essential nutrients, although in the soil in abundant quantities, are not available for plant use. Dr. Alderfer added that correct pH is important to bacteria life and activity, which is important to the release of nitrogen from the organic fertilizers.

The third condition for plant growth is an abundant supply of oxygen. Poor drainage conditions are not unfavorable because of too much water, but because of lack of adequate supply of air to the roots of the plants. Soil compaction itself can often reduce air movement to a dangerously low level, and usually results in poor drainage conditions. Compaction leads to surface rooting, which means that the turf will not be drought resistant. His recommendations were (a) Do not work soil when too wet; (b) add organic matter to clay soils to hold the soil particles apart and give more porosity; (c) use spikers and aerators when practical, and (d) check into the possible beneficial use of gypsum applications.

Turf in the Landscape

The second speaker was Roy H. DeBoer, who teaches the landscape design courses in the Rutgers program, discussing the topic "Fitting Turf into the Landscape." He began by classifying turf as one of the many good ground cover materials. Using

slides, he pointed out that not every garden style and not every landscape should have a lawn. For example, the Japanese garden and the truly naturalistic garden would not include turf. Extreme site conditions, such as steep grade, lack of sufficient soil, competition from other existing plantings and extremely dense shade may make a lawn impractical. The inability or unwillingness of the property owner to carry on a minimal maintenance program for a fair utility lawn may be another reason for its omission. Most of the informal, formal and modern landscapes call for some lawn.

Mr. DeBoer had the audience concerned when he noted that there are designers who would see the lawn completely omitted from most landscapes. He cited from "Creative Gardens," written by James Rose, a landscape architect, passages which indicate definite suggestions of de-emphasis of the lawn. Slides were shown of several landscapes of excellent design, but without lawns. Most of these were of gardens designed by Mr. Rose. He then pointed out that even Mr. Rose uses some lawn in some of his creations, showing a few contemporary gardens.

Lawn Functions

The lawn functions in the landscape in the following ways:

(1) It provides a pleasing neutral foreground or setting for a landscape picture. There is no other ground cover with a similar color or texture combination that is still functional as a use surface.

(2) The shape of the lawn area

[Continued on page 126]

Southern Shade Tree Conference

Talks on Wound Dressings, Hemlock and Wax Scales, Employees and Spraying

By Paul E. Tilford

The Southern chapter of the National Shade Tree Conference, meeting at the Lord Baltimore hotel, Baltimore, Md., February 19 to 21, opened the official sessions Monday morning, February 20. Dr. Henry P. Orr, president of the chapter, presided. Mrs. Richmond Farring, of the Baltimore park board, welcomed the 175 delegates.

In the election of officers held during the conference, Daniel D. Boone, Turner Tree Service, Atlanta, Ga., was elected president for the coming year. William A. Shields, superintendent, tree department, Columbia, S. C., is the new vice-president, and Bryson L. James, North Carolina State College, Raleigh, will serve as secretary-treasurer.

Next year's meeting will be held in the Admiral Sims hotel, Mobile, Ala., February 26 to 28.

Edgar Cordell Powers, grand chaplain, southern jurisdiction, Ancient and Accepted Scottish Rite of Freemasonry, gave an interesting talk describing the many services trees perform for mankind. The address was concluded with a review of the more important references to trees in the Bible.

Antiseptic Wound Dressings

Dr. Curtis May, agricultural research service, United States Department of Agriculture, described experiments made in co-operation with Dr. John Palmer, also of the U. S. D. A., testing different antiseptic tree wound dressings. The fungus which causes the canker stain disease of plane trees, as demonstrated by J. M. Walter in 1950, can be transmitted in nonantiseptic tree wound dressing. In the painting of pruning wounds on a diseased tree, the brush may carry sawdust and other bits of infected wood to the wound dressing container. The fungus may later be transferred to pruning wounds on healthy trees. Early work on plane tree canker stain showed that wound dressings containing a small quantity of phenyl mercury nitrate did not transmit the disease.

In the present work, Drs. May and Palmer tested many fungicidal materials in wound dressing against 11 different fungi that cause decay in trees. The fungicides tested were captan, dichlorone, ferbam, maneb,

phaltan, phenyl mercury nitrate, thiram, zineb and a nickel carbamate.

Many of the materials showed toxicity to some of the organisms, but phenyl mercury nitrate was the only one that inhibited growth of all of the fungi. It was concluded that an asphalt varnish containing 0.25 per cent of phenyl mercury nitrate should be sufficiently antiseptic to prevent spread of many species of wood decay fungi through the use of contaminated paint and probably would prevent infection to pruning cuts by contaminated tools.

In the discussion which followed Dr. May's talk, mention was made of a canker on post oak and on live oak that may be caused by the chestnut blight fungus. There is at least circumstantial evidence that this disease on post oak may be transmitted by ordinary pruning operations.

In discussing "Control of the

Hemlock Scale, *Fiorinia externa*," Charles W. McComb, assistant entomologist, University of Maryland, said that in Maryland this serious pest of hemlock is confined to the Baltimore area. Waxy secretions produced by the scales give heavily infested trees a whitewashed appearance, which ruins their value as ornamentals. The feeding of the insects causes the needles to become pale in color.

In discussing control of the hemlock scale, Dr. McComb emphasized the fact that, since the females continue to produce and protect crawlers over a long period of time, insecticidal control is often difficult to obtain. When sprays are applied, all parts of the tree should be drenched with the solution, especially the undersides of the needles.

The following treatments have been found effective in clearing up infestations. Unless nearby infested

[Continued on page 89]

Trees and Power Lines, Topic At Canadian Tree Conference

By C. G. Dobbin

The Canadian chapter of the National Shade Tree Conference held its 12th annual meeting at Montreal, Canada, February 23 and 24, with over 50 per cent of the membership in attendance. Jack Kimmel, city arborist, Toronto, is the newly elected president.

All phases of tree and brush conflict with overhead lines and underground cables were discussed at the meeting, where it was revealed that Canadian cities will soon have more power lines underground, especially in new subdivisions. This will increase the danger involved in planting and fertilizing trees.

Some power companies are planning to bring underground services parallel to the rear of the property or on a right of way, with the homes being supplied by underground lines from the corner of the property to the house.

This part of the service may be entirely owned by the property

owner, and records of these installations could be forgotten when properties change hands, with the result that digging tree holes, etc., could create some hazards. Tree companies often encounter problems with telephone cables when boring holes for tree fertilizer. Lightning is also a threat to underground cables when an isolated large tree forms a conductor through its roots to the cable.

Overhead lines of both power and telephone companies are subject to much interference from trees and shrubs, especially when wet. Telephone transmission is sometimes grounded by wet trees and brush that form a path to ground. Cables are often worn through by rubbing branches, and brush that grows under the telephone lines can catch fire and result in melted lead cables and burned poles. Power and telephone companies agreed that line

[Continued on page 118]

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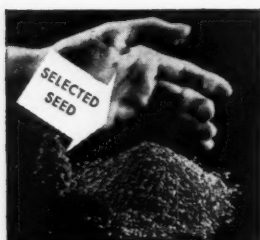
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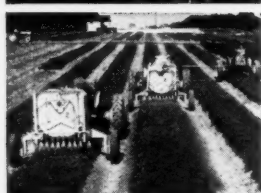
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Taxus cuspidata—upright pyramidal					
(2-2), T., 6 to 12 ins.....	\$30.00	\$200.00			
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Taxus cuspidata—spreading					
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COMING EVENTS

MEETING CALENDAR

April 13 and 14 — Holly Society of America, 29th meeting, Battery Park hotel, Asheville, N. C.

May 18—Georgia nurserymen's field day, University of Georgia, Athens, Ga.

May 18 to 20—Florida Nurserymen and Growers Association, annual convention, Deauville hotel, Miami Beach, Fla.

May 21 to 23—Texas Association of Nurserymen, short course, Agricultural and Mechanical College of Texas, College Station, Tex.

May 28 to 30—Georgia State Nurserymen's Association, annual convention, the Corsair, Jekyll island, Ga.

May 29 to 31—Short course for Louisiana nurserymen, University of Southwestern Louisiana, Lafayette, La.

June 7 and 8—Refresher course for nurserymen, California Polytechnic Institute, San Luis Obispo, Calif.

June 11 to 13—South Carolina Nurserymen's Association, annual convention, Francis Marion hotel, Charleston, S. C.

June 11 to 13—Alabama Nurserymen's Association, annual convention, Albert Pick motel, Huntsville, Ala.

June 15 and 16—Florida Nurserymen and Grower's Association, short course, University of Florida, Gainesville.

June 19 to 24—Advanced management conference, Syracuse University's Minnowbrook conference center.

June 20 to 23—Western chapter, National Shade Tree Conference, University of British Columbia, Vancouver, Canada.

June 25 to 27—Plains Nurserymen's Association and New Mexico Association of Nurserymen, joint convention, Western Skies motel, Albuquerque, N. M.

July 9 to 12—Canadian Association of Nurserymen, 38th annual meeting, Hotel Vancouver, Vancouver, B. C., Canada.

July 15 to 20—American Association of Nurserymen, annual convention, Statler Hilton hotel, Washington, D. C.

August 13 to 18—A. A. N. management conferences, Sagamore conference center of Syracuse University, near Raquette Lake, N. Y., and Lake Arrowhead conference center of the University of California, Lake Arrowhead, Calif.

A. A. N. LADIES' PROGRAM

Further program details of the American Association of Nurserymen's 86th annual convention, scheduled for July 15 to 20 at the Statler Hilton hotel, Washington, D. C., were released recently with the announcement of the ladies' program. The Maryland-Virginia night, one of the events listed of special interest to ladies attending the convention, will be sponsored jointly by the Maryland Nurserymen's Association and the Virginia Nurserymen's Association and will feature special [Continued on page 20]

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2 to 3 ft.	\$1.25	\$1.00	12 to 15 ins.	\$1.25	\$1.00	15 to 18 ins.	\$1.20	\$1.00
<i>Azalea (Ilicium)</i>			15 to 18 ins.	1.50	1.25	18 to 24 ins.	1.50	1.25
2 to 3 ft.	1.50	1.25	18 to 24 ins.	2.00	1.75			
3 to 4 ft.	2.25	2.00	24 to 30 ins.	2.25	2.00	<i>Loropetalum chinensis</i>		
<i>Berberis, Julianae</i>			<i>Ilex crenata rotundifolia</i>			15 to 18 ins.	1.15	1.00
15 to 18 ins.	1.75	1.50	12 to 15 ins.	1.15	1.00	18 to 24 ins.	1.40	1.25
18 to 24 ins.	2.25	2.00	15 to 18 ins.	1.40	1.25	24 to 30 ins.	1.75	1.50
<i>Borwood, harlandi</i>			18 to 24 ins.	1.65	1.50	<i>Magnolia alexandrina</i>		
8 to 10 ins. ....	.85	.75	24 to 30 ins.	2.25	2.00	4 to 5 ft.	3.75	3.50
10 to 12 ins.	1.15	1.00	30 to 36 ins.	3.00	2.75	<i>Magnolia glauca</i>		
12 to 15 ins.	1.40	1.25	3 to 4 ft.	4.00	3.50	2 to 3 ft.	1.75	1.50
15 to 18 ins.	1.65	1.50	<i>Ilex crenata rotundifolia, pyramids</i>			3 to 4 ft.	2.25	2.00
<i>Borwood, sempervirens</i>			24 to 30 ins.	2.25	2.00	4 to 5 ft.	2.75	2.50
12 to 15 ins.	1.40	1.25	30 to 36 ins.	3.25	3.00	5 to 6 ft.	3.50	3.25
15 to 18 ins.	2.25	2.00	3 to 4 ft.	4.50	4.00	6 to 8 ft.	5.50	5.00
18 to 24 ins.	2.75	2.50	<i>Ilex glabra</i>			<i>Magnolia grandiflora</i>		
<i>Borwood, welleri</i>			15 to 18 ins.	1.20	1.00	2 to 3 ft.	1.75	1.50
12 to 15 ins.	1.40	1.25	18 to 24 ins.	1.75	1.50	3 to 4 ft.	2.75	2.50
<i>Claytonia japonica</i>			24 to 30 ins.	2.25	2.00	4 to 5 ft.	3.75	3.50
15 to 18 ins.	1.20	1.00	30 to 36 ins.	2.75	2.50	5 to 6 ft.	5.50	5.00
18 to 24 ins.	1.75	1.50	<i>Ilex opaca, seedlings</i>			6 to 8 ft.	8.25	7.50
<i>Elaeagnus fruitlandi</i>			2 to 3 ft.	1.75	1.50	<i>Magnolia rustica rubra</i>		
2 to 3 ft.	1.25	1.00	3 to 4 ft.	2.75	2.50	4 to 5 ft.	3.75	3.50
3 to 4 ft.	1.75	1.50	4 to 5 ft.	3.75	3.50	<i>Magnolia soulangiana</i>		
<i>Elaeagnus simoni</i>			5 to 6 ft.	5.50	5.00	2 to 3 ft.	2.00	1.75
2 to 3 ft.	1.25	1.00	<i>Ilex Croonenburg</i>			3 to 4 ft.	2.75	2.50
3 to 4 ft.	1.75	1.50	2 to 3 ft.	2.25	2.00	4 to 5 ft.	3.50	3.25
<i>Eucynthus alatus compactus</i>			3 to 4 ft.	3.25	3.00	5 to 6 ft.	4.50	4.00
18 to 24 ins.	1.50	1.25	4 to 5 ft.	4.25	4.00	<i>Magnolia soulangiana nigra</i>		
24 to 30 ins.	1.75	1.50	5 to 6 ft.	5.25	5.00	3 to 4 ft.	2.75	2.50
<i>Eucynthus coloratus</i>			<i>Ilex East Palatka</i>			<i>Magnolia stellata</i>		
18 to 24 ins.	1.25	1.00	2 to 3 ft.	1.75	1.50	18 to 24 ins.	2.00	1.75
24 to 30 ins.	1.50	1.25	3 to 4 ft.	2.75	2.50	2 to 3 ft.	3.00	2.50
30 to 36 ins.	2.25	2.00	4 to 5 ft.	3.75	3.50	3 to 4 ft.	4.50	4.00
<i>Eucynthus fortunei erectus</i>			5 to 6 ft.	5.50	5.00	<i>Nandina domestica</i>		
15 to 18 ins.	1.25	1.00	<i>Ilex opaca fosteri</i>			15 to 18 ins. ....	.90	.75
18 to 24 ins.	1.50	1.25	2 to 3 ft.	2.25	2.00	18 to 24 ins.	1.20	1.00
24 to 30 ins.	1.70	1.50	3 to 4 ft.	3.25	3.00	24 to 30 ins.	1.50	1.25
<i>Eucynthus japonicus</i>			4 to 5 ft.	4.25	4.00	30 to 36 ins.	1.75	1.50
18 to 24 ins.	1.15	1.00	5 to 6 ft.	5.25	5.00	<i>Nandina domestica, dwarf</i>		
24 to 30 ins.	1.70	1.50	<i>Ilex howardi</i>			15 to 18 ins.	1.15	1.00
30 to 36 ins.	2.25	2.00	2 to 3 ft.	2.25	2.00	18 to 24 ins.	1.40	1.25
<i>Eucynthus patens</i>			3 to 4 ft.	3.25	3.00	<i>Osmanthus aquifolium</i>		
18 to 24 ins.	1.20	1.00	4 to 5 ft.	4.25	4.00	18 to 24 ins.	1.50	1.25
2 to 3 ft.	1.75	1.50	5 to 6 ft.	5.25	5.00	<i>Osmanthus fortunei</i>		
3 to 4 ft.	2.25	2.00	<i>Ilex Reynolds</i>			18 to 24 ins.	1.50	1.25
<i>Eucynthus radicans,</i>			2 to 3 ft.	2.25	2.00	24 to 30 ins.	1.75	1.50
several selected types			3 to 4 ft.	3.25	3.00	<i>Photinia serrulata</i>		
15 to 18 ins.	1.20	1.00	4 to 5 ft.	4.25	4.00	18 to 24 ins.	1.20	1.00
18 to 24 ins.	1.50	1.25	<i>Ilex Taber</i>			2 to 3 ft.	1.75	1.50
24 to 30 ins.	1.75	1.50	2 to 4 ft.	3.25	3.00	<i>Viburnum burkwoodi</i>		
<i>Ilex cassine angustifolia</i>			3 to 4 ft.	4.25	4.00	18 to 24 ins.	1.50	1.25
3 to 4 ft.	3.50	3.00	5 to 6 ft.	5.25	5.00	24 to 30 ins.	1.75	1.50
4 to 5 ft.	4.50	4.00	<i>Ilex vomitoria</i>			30 to 36 ins.	2.25	2.00
<i>Ilex cornuta burfordi</i>			15 to 18 ins.	1.15	1.00	3 to 4 ft.	2.75	2.50
15 to 18 ins.	1.20	1.00	18 to 24 ins.	1.40	1.25	<i>Viburnum chenaulti</i>		
18 to 24 ins.	1.50	1.25	24 to 30 ins.	1.75	1.50	18 to 24 ins.	1.50	1.25
24 to 30 ins.	1.75	1.50	30 to 36 ins.	2.25	2.00	24 to 30 ins.	1.75	1.50
30 to 36 ins.	2.50	2.25	<i>Ilex vomitoria Pride of Houston</i>			30 to 36 ins.	2.25	2.00
3 to 4 ft.	3.50	3.00	18 to 24 ins.	1.40	1.25	3 to 4 ft.	2.75	2.50
<i>Ilex cornuta femina</i>			24 to 30 ins.	1.75	1.50	<i>Viburnum juddi</i>		
15 to 18 ins.	1.20	1.00	30 to 36 ins.	2.25	2.00	18 to 24 ins.	1.50	1.25
18 to 24 ins.	1.50	1.25	<i>Ilex vomitoria, dwarf</i>			24 to 30 ins.	1.75	1.50
24 to 30 ins.	1.75	1.50	12 to 15 ins.	1.50	1.25	<i>Viburnum rhytidophyllum</i>		
30 to 36 ins.	2.50	2.25	<i>Jasmine, floridum</i>			18 to 24 ins.	1.75	1.50
<i>Ilex cornuta Hume</i>			15 to 18 ins.	1.20	1.00	24 to 30 ins.	2.00	1.75
15 to 18 ins.	1.50	1.25	18 to 24 ins.	1.50	1.25	30 to 36 ins.	2.50	2.25
18 to 24 ins.	1.75	1.50	2 to 3 ft.	1.75	1.50	3 to 4 ft.	3.25	3.00
24 to 30 ins.	2.25	2.00	<i>Laurel, Cherry</i>			4 to 5 ft.	4.50	4.00
30 to 36 ins.	2.75	2.50	2 to 3 ft.	1.50	1.25	<i>White Dogwood</i>		
<i>Ilex cornuta rotunda</i>			3 to 4 ft.	1.75	1.50	2 to 3 ft.	1.20	1.00
12 to 15 ins.	1.50	1.25	4 to 5 ft.	2.50	2.25	3 to 4 ft.	1.75	1.50
<i>Ilex crenata convexa</i>			5 to 6 ft.	3.50	3.00	4 to 5 ft.	2.25	2.00
12 to 15 ins.	1.00	.80	6 to 8 ft.	5.00	4.50	5 to 6 ft.	3.50	3.00
15 to 18 ins.	1.25	1.00	<i>Laurel, English</i>			<i>White Dogwood (Cherokee Princess)</i>		
18 to 24 ins.	1.75	1.50	15 to 18 ins.	1.25	1.00	3 to 4 ft.	2.75	2.50
24 to 30 ins.	2.25	2.00	18 to 24 ins.	1.50	1.25	4 to 5 ft.	3.75	3.50
<i>Ilex crenata helai</i>			2 to 3 ft.	1.75	1.50	<i>Pink Dogwood</i>		
12 to 15 ins.	1.20	1.00	<i>Laurel, Zabeli</i>			2 to 3 ft.	1.75	1.50
15 to 18 ins.	1.75	1.50	15 to 18 ins.	1.20	1.00	3 to 4 ft.	2.75	2.50
18 to 24 ins.	2.25	2.00	18 to 24 ins.	1.75	1.50	<i>Live Oak, B&B</i>		
<i>Ilex crenata latifolia, pyramids</i>			2 to 3 ft.	2.25	2.00	3 to 4 ft.	2.75	2.50
18 to 24 ins.	1.75	1.50	<i>Ligustrum lucidum (Black Wax)</i>			4 to 5 ft.	4.00	3.50
24 to 30 ins.	2.25	2.00	18 to 24 ins.	1.20	1.00	5 to 6 ft.	5.50	5.00
30 to 36 ins.	3.25	3.00	24 to 30 ins.	1.50	1.25	<i>Silver Maple, B&B</i>		
3 to 4 ft.	4.50	4.00	30 to 36 ins.	1.75	1.50	6 to 8 ft.	2.00	1.50
			<i>Ligustrum lucidum Suwannee River</i>			8 to 10 ft.	2.50	2.00
			15 to 18 ins.	1.15	1.00	10 to 12 ft.	3.00	2.50
			18 to 24 ins.	1.40	1.25			
			24 to 30 ins.	1.65	1.50			
			30 to 36 ins.	2.00	1.75			

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American Home	Ivory Fashion	Roundelay
Aml Quinard	Jimmy Cricket	Royal Velvet
Ardelle	Joanna Hill	Sarabande
Baby Blaze	Jane Bride	Show Girl
Betty Prior	K. A. Viktoria	Siren
Bingo	Konrad Adenauer	Socur Therese
Blanche Mallerin	Kordes Perfecta	Spartan
Brocade	K. T. Marshall	Starfire
Bronze Masterpiece	Lady Elgin	Sterling Silver
Buccaneer	Lady Luck	Summertime
Burnaby	La Jolla	Sunlight
Caledonia	Las Vegas	Suspense
Carrousel	Lavender Girl	Sutter's Gold
Charlotte Armstrong	Little Darling	Talisman
Christopher Stone	Love Song	Tapestry
Chrysler Imperial	Lowell Thomas	The Doctor
Circus	McGredy's Ivory	The Duke
Condessa de Sastago	McGredy's Scarlet	The Fairy
Confidence	McGredy's Yellow	Tiffany
Crimson Glory	Midnight	Torch Song
Dagmar Spaeth	Mirandy	Virgo
Donald Prior	Mme. Henri Guillot	Vogue
Dresden	Mme. Joseph Perraud	White Bouquet
Duet	Mojave	White Knight
Eclipse	Montezuma	White Queen
Edith Nellie Perkins	Mrs. Sam McGredy	White Swan
Editor McFarland	New Yorker	Yellow Pinocchio
El Capitan	Nigger Boy	
Else Poulsen	Nocturne	
Etoile de Hollande	Orchid Masterpiece	
Fan Tan	Peace	
Fascinating	Peaceful	
Fashion	Peach Glow	
Fire King	Picture	
Floradora	Pink Fragrance	
Forty-Niner	Pink Lustre	
Frau Karl Druschki	Pink Parfait	
Frensham	Pink Peace	
Fusilier	Pink Radiance	
Garden Party	Pinocchio	
Gold Cup	Poinsettia	
Golden Dawn	President Eisenhower	
Golden Girl	President H. Hoover	
Golden Masterpiece	Puregold	
Golden Wings	Queen Elizabeth	
Green Fire	Red Radiance	
Helen Traubel	Red Pinocchio	
Independence	Red Ripples	
Irene of Denmark	Rex Anderson	
Isobel Harkness	Rose Elf	



Dresden—New for 1961

DRESDEN (Plant Patent No. 1857), retail \$3.50. One of the finest new roses of the world. Vigorous hybrid tea bush producing prize-winning quality blooms. 55 or more petals. Color is white with very light pink blush. In warm weather the bloom is often pure white. The dark green foliage is disease resistant. This variety has been tested and enthusiastically received in all parts of the country.

PUREGOLD (Plant Patent No. 1859), retail \$3.00. A rich yellow-colored hybrid tea with long pointed bud and color that never fades. Bloom repeats well. Very lustrous foliage.

BROCADE (Plant Patent No. 1856), retail \$3.00. A bicolor rose-pink and white hybrid tea. Tall-growing bush produces flowers almost as large as Peace. Flowers have firm texture and nice fragrance.

BINGO (Plant Patent No. 1392), retail \$2.50. A luminous deep red hybrid tea with grandiflora tendencies. Has been gaining in popularity each year since introduction. Rated 7.7 on list of high-rated red hybrid teas. Wonderful fragrance.

PINK FRAGRANCE (Plant Patent No. 1493), retail \$2.25. A deep pink hybrid tea with excellent bud form and very lustrous foliage. Delightful strong fragrance. Excellent repeat bloomer.

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Maryland and Virginia refreshments, entertainment and dancing. The complete ladies' program follows:

JULY 16

4 p. m.—Reception, Congressional room.

8 p. m.—Maryland-Virginia night, Presidential ballroom and Congressional room.

JULY 17

12 p. m.—Keynote luncheon, Presidential ballroom.

"The Sum of the Digits"—address by Dr. Richard P. White, executive vice-president, A. A. N.

Presentation of Norman Jay Colman award and garden writer's award.

9 p. m.—Hospitality night: Refreshments and dancing, Presidential ballroom.

JULY 18

12:30 p. m.—Ladies' Auxiliary luncheon and meeting, Mayflower hotel, State room.

JULY 19

7:30 p. m.—Past presidents' banquet, dancing, Presidential ballroom and Congressional room.

RHODODENDRON SPEAKERS

World authorities on rhododendrons have been scheduled to speak at the international rhododendron conference at Portland, Ore., May 11 to 14. Among the topics to be discussed and those who will give the talks are the following:

"Rhododendron and Azalea Varieties for the West Coast," by P. H. Brydon, director, Strybing Arboretum, San Francisco, Calif.

"Dwarf Rhododendrons in the Northwest," by Wales Wood, director, American Rhododendron Society, St. Helens, Ore.

"Rhododendrons at the Royal Botanic Garden, Edinburgh and Benmore," by Dr. H. R. Fletcher, regius keeper, Royal Botanic Garden, Edinburgh, Scotland.

"Rhododendron and Azalea Trials at Wisley," by Dr. F. P. Knight, director, Royal Horticultural Society Gardens, Wisley, England.

"The Dexter Hybrids Today," by Dr. J. C. Wister, director, Arthur Hoyt Scott foundation, Swarthmore College, Swarthmore, Pa.

"Diseases of Rhododendrons in the Pacific Northwest," by Dr. C. J. Gould and Dr. M. Eglitis, western Washington experiment station, Puyallup, Wash.

"Rhododendrons at Leonardslee: The Loderi Hybrids," by Sir Giles Loder, Leonardslee, Horsham, Sussex, England, official delegate of the R. H. S. to the conference.

"Rhododendron and Azalea Hybrids in Holland," by H. J. Grootendorst, Boskoop, Holland.

"Rhododendrons for Colder Climates," a symposium, with Dietrich Hobbie, Linswege, Oldenburg, Germany; David Leach, Brookville, Pa., and Edmond Amateis, Brewster, N. Y.

"Mulches for Rhododendrons and Azaleas," by Dr. A. N. Roberts, Oregon State College, Corvallis, Ore.

"Classification of the Native American Azaleas," by Dr. H. T. Skinner, director, United States National Arboretum, Washington, D. C.

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It's all 3...

- ★ MIST BLOWER
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IN THE FIELD. Spray, dust or wet-dust up to a 40-ft. swath—treat an acre in 10 minutes!



IN THE GREENHOUSE. Walk easily through narrow aisles—or treat from the outside—get complete coverage of mist or dust in minutes!

HUDSON "928" (Scheffenacker) MIST-SPRAYER/DUSTER

Whatever your plant insect or disease problems, here's how this powerful 3-in-1 machine can help you get better control at rock-bottom cost.

Is it a job for spraying? The Hudson "928" applies liquid concentrate at ample velocity for thorough penetration and complete under-and-over-leaf coverage.

Is it a job for dust? Here's the machine to treat large areas fast; applies dust at the velocity needed for maximum control of plant diseases and insects.

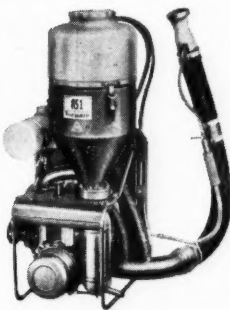
Want to dust when plants are dry? You just attach compact water tank, add water to air-and-dust stream. Dust sticks even when humidity is extremely low.

Need to get on the job fast? You're in the field controlling pests while others are getting big rigs ready.

Big machines bogged down? No need to wait for fields to dry when you own a Hudson "928"—it goes wherever and whenever a man can go.

How about inside work? The Hudson "928" will go down narrow aisles—in tight quarters—and mist-spray or dust a house in minutes. In low ceiling houses of average length, just poke the nozzle through a doorway and fill the entire house with billowing spray or dust.

How about cost? Compact, superbly engineered, with work-capacity near that of rigs costing many times more. You'll be surprised by how little it costs to put one in your field. Find out now—mail coupon today!



Comfortable

Soft foam cushion, rubber shocks absorb vibration,—keeps it from the operator.

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Regulate air volume and motor speed.

Plastic Spray Tank

Rust and corrosion proof.

Only 35 Lbs.—It's light and portable.

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Carries material up or out 35' to 40'.

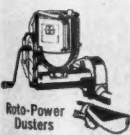
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Holds 2 3/4 gals. concentrate. Dust hopper holds 9 lbs. (average density).

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Send coupon today for price and full information.

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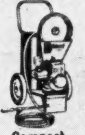
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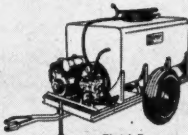
Bak-Pak Sprayers



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QUALITY LINING-OUT STOCK

We list below the items of lining-out stock that we have available for the 1961 season. We think that we have very fine liners and will submit samples on request. No orders for less than 50 plants of a kind, please. 50 to 250 plants at the 100 rate, 250 and up at the 1000 rate.

LATH HOUSE GROWN POTTED LINERS

Grown outside in lath houses one or more seasons.

	Each Per 100	Each Per 1000
Barberry, julianae, 2½-in. pot, 6 to 8 ins.	\$0.16	\$0.15
Elaeagnus simoni, 2½-in. pot, 8 to 10 ins.	.15	.12½
Ilex aquifolium, seedlings, 2½-in. pot, 8 to 10 ins.	.15	.12½
Ilex crenata convexa, 2½-in. pot, 4 to 6 ins.	.15	.12½
Ilex glabra, 2½-in. pot, 6 to 8 ins.	.15	.12½
Ilex crenata Green Thumb, 2½-in. pot, 4 to 6 ins.	.15	.12½
Ilex crenata helleri, 2½-in. pot, 2-yr., 4 to 6 ins.	.15	.12½
Viburnum hillebrandii, 4-in. pot, 3-yr., 6 to 8 ins.	.35	.30
Ilex crenata hetzi, 2½-in. pot, 6 ins.	.15	.12½
Ilex opaca East Palatka, 3-in. pot, peat, heavy, 10 to 12 ins.	.15	.12½
Nandina domestica, 2-in. rose pot, 8 to 10 ins.	.12½	.10
Osmanthus fortunei, 2½-in. rose pot, 4 to 6 ins.	.17½	.15
Viburnum burkwoodii, 2½-in. rose pot, 8 to 10 ins.	.12½	.10
Viburnum chenaultii, 2½-in. rose pot, 8 to 10 ins.	.12½	.10
Thuja occidentalis compacta erecta, 2½-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja occidentalis, Dark Green, 2½-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja occidentalis globosa, 2½-in. rose pot, heavy, 6 to 8 ins.	.16	.14
Thuja orientalis Baker's, 2½-in. rose pot, 8 to 10 ins.	.17½	.15
Thuja orientalis, Blue Cone, 2½-in. rose pot, 8 to 10 ins.	.17½	.15
Thuja orientalis, Mayhews, 2½-in. rose pot, 6 to 8 ins.	.17½	.15
Thuja orientalis newarkii, 2½-in. rose pot, 8 to 10 ins.	.18	.16
Chamaecyparis plumosa, Green, 2½-in. pot, 6 to 8 ins.	.15	.12½
Chamaecyparis plumosa, Golden, 2½-in. pot, 6 to 8 ins.	.15	.12½
Juniper, chinensis hetzi, 2½-in. pot, 8 to 10 ins.	.17½	.15
Juniper, chinensis hetzi, beer cans, 12 to 15 ins.	.22½	.20

BED-GROWN LINERS FROM LATH HOUSE

Boxwood, harlandii, beds, heavy, 8 to 10 ins.	.20	.17½
Euonymus alatus compactus, beds, 4 to 6 ins.	.16	.15
Euonymus fortunei argenteo-variegatus, beds, 4 to 6 ins.	.15	.12½
Euonymus fortunei compactus, beds, 8 to 12 ins.	.12½	.10
Euonymus microphyllus, beds, heavy, 4 to 6 ins.	.15	.12½
Euonymus radicans, beds, 10 ins.	.15	.12½
Euonymus radicans, upright, beds, 8 to 12 ins.	.15	.12½
Ilex crenata convexa, seedlings, 2-yr., beds, 10 to 12 ins.	.15	.12½
Ilex crenata rotundifolia, beds, light, 6 to 8 ins.	.12½	.10
Ligustrum lucidum Suwannee River, beds, 6 to 8 ins.	.35	.30

HEAVY FIELD-GROWN LINERS

All two-year, field-grown liners have been root-pruned and trimmed several times.

	Each Per 100	Each Per 1000		Each Per 100	Each Per 1000
Juniper, Andorra	\$0.12½	\$0.10	Juniper, Pfitzer compacta Nicks	\$0.17½	\$0.15
1-yr., 6 to 8 ins.			1-yr., 6 to 8 ins.		
2-yr., 8 to 12 ins.	.15	.12½	2-yr., 8 to 12 ins.	.22½	.20
Juniper, chinensis			Juniper, Pfitzer compacta Kallay		
albo-variegata	.25	..	1-yr., 6 to 8 ins.	.17½	.15
2-yr., 8 to 12 ins.	.25	..	2-yr., 8 to 12 ins.	.22½	.20
Juniper, chinensis hetzi glauca	.12½	.10	Juniper, Pfitzer Blue (Mayhews)	.25	.22½
1-yr., 6 to 8 ins.	.12½	.10	2-yr., 10 to 12 ins.	.25	.22½
1-yr., 8 to 12 ins.	.15	.12½	Juniper, Pfitzer nana		
2-yr., 8 to 12 ins.	.17½	.15	(Armstrong's)		
2-yr., 12 to 15 ins.	.20	.17½	1-yr., 6 to 8 ins.	.17½	.15
Juniper, chinensis maneyi	.25	.22½	Juniper, sabinia		
1-yr., 6 to 8 ins.	.25	.22½	1-yr., 6 to 8 ins.	.12½	.10
1-yr., 8 to 12 ins.	.27½	.25	2-yr., 10 to 12 ins.	.17½	.15
Juniper, excelsa stricta	.12½	.10	Juniper, sabinia Arcadia		
1-yr., 6 to 10 ins.	.12½	.10	1-yr., 6 to 8 ins.	.25	..
2-yr., 8 to 12 ins.	.17½	.15	Juniper, sabinia horizontalis	.25	..
Juniper, fastigiata	.12½	.10	1-yr., 8 to 10 ins.	.25	..
1-yr., 8 to 12 ins.	.12½	.10	Juniper, sabinia voneshron	.12½	.10
2-yr., 12 to 15 ins.	.15	.12½	1-yr., 6 to 8 ins.	.12½	.10
Juniper, communis depressa	.15	.12½	Juniper, virginiana repandens	.15	.12½
aurea (Golden Canadian)	.17½	.15	1-yr., 6 to 8 ins.	.15	.12½
1-yr., 8 to 10 ins.	.17½	.15	2-yr., 8 to 10 ins.	.17½	.15
2-yr., 10 to 12 ins.	.22½	.20			
Juniper, chinensis pfitzeriana	.17½	.15			
1-yr., 8 to 10 ins.	.17½	.15			
2-yr., 10 to 12 ins.	.20	.17½			

CARTWRIGHT NURSERIES

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Coast," by Dr. P. J. Bowman, Fort Bragg, Calif., and R. L. Hudson, Golden Gate park, San Francisco, Calif.

"Breeding Developments in the United States," a symposium, with Dr. Clement G. Bowers, Maine, N. Y.: Joseph B. Gable, Stewartstown, Pa.; Rudolph Henry, Brooks, Ore.; A. M. Shammarello, Euclid, O., and H. L. Larson, Tacoma, Wash.

"Rhododendrons and Azaleas in New Zealand," by Dr. J. S. Yeates, Massey Agricultural College, Palmerston, New Zealand.

Depending on interest shown by registrants, tours to view rhododendron gardens and shows in the Portland area will be offered before, during and after the conference. Definitely scheduled is a tour of the American Rhododendron Society's test garden at Portland. This is one of the world's finest rhododendron gardens, having over 3,500 plants, including some 400 named varieties of hybrids and 300 species. The plantings occupy island and peninsula areas that have been well developed for the purpose. A new, modern plastic coolhouse contains a fine collection of tender rhododendrons rarely seen in public gardens.

SAN DIEGO ROSE EVENTS

With the El Cortez hotel, San Diego, Calif., as headquarters, members of the American Rose Society will hold their spring meeting April 13 to 15. A business program of the society will be held Thursday morning, April 13, with Mrs. Nat Schoen, Vancouver, Wash., president, presiding.

At a session which will be devoted to questions and answers, the panel of experts will include Dr. Walter K. Lammerts, Germaine's, Inc., Los Angeles, Calif.; Dr. E. W. Lyle, Texas Rose Research Foundation, Tyler; Herbert Swim and Dr. David Armstrong, of Armstrong Nurseries, Inc., Ontario, Calif.; Robert Lindquist, Howards of Hemet, Hemet, Calif.; Dennison Morey, Jackson & Perkins Co. of California, Pleasanton, and Ralph Moore, Sequoia Nursery, Visalia, Calif. John van Barneveld will moderate the session.

Dr. O. R. Lunt, of the University of California at Los Angeles, will discuss the use of the U. C. soil mix for rose growing.

Harry Wheatcroft, Wheatcroft Bros., Nottingham, England, a noted rosarian, will be the featured banquet speaker.

The national rose show to be held in three buildings at Balboa park during the society's gathering at San Diego will mark the 25th anniversary.

[Continued on page 26]



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NURSERY STOCK:

Tests prove Nemagon® Soil Fumigant can produce marketable plants up to 2 years earlier

To establish whether or not nematodes have an appreciable effect on the time it takes to bring lining out plants to marketable size, tests were conducted at various nurseries.

Test Results

Areas known to have a substantial nematode population were treated with Nemagon Soil Fumigant. Our photograph shows plants that were lined out at the same time. The rigorous, healthy stock in the treated rows will reach salable size as much as 2 years sooner than the poorer stock in the untreated

rows. The results are obvious—quicker and higher profit.

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Nemagon can be used around the roots of growing plants. Apply it as liquid or granules, or mixed with fertilizer. Conventional fumigation equipment—such as a pressure-feed or gravity-flow applicator can be used for liquid Nemagon Soil Fumigant.

Granules are easily applied with fertilizer side dressing equipment.

Nemagon Soil Fumigant can also be used to protect many annuals.

Nemagon Soil Fumigant is available from your local pesticide dealer under many well-known brand names. See him today, or write to: Shell Chemical Company, Agricultural Chemicals Division, 110 West 51st Street, New York 20, N. Y.

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T. G. OWEN & SON, INC.

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	Each	25 or more
Biota aurea nana (Berckmans)		
12 to 15 ins., B&B	\$.90	
15 to 18 ins., B&B	1.00	
18 to 24 ins., B&B	1.25	
24 to 30 ins., B&B	1.50	
30 to 36 ins., B&B	1.75	

Biota aurea pyramidalis compacta	
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25

Biota bakeri

Biota excelsa

Biota sibyll

18 to 24 ins., B&B	.75
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25
3 to 4 ft., B&B	1.50
4 to 5 ft., B&B	2.00
5 to 6 ft., B&B	2.25

Biota Bonita

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
30 to 36 ins., B&B	1.75

Biota Bonita, upright

18 to 24 ins., B&B	.90
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.35

Biota Blue Cone

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	1.75

Biota excelsa compacta

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50

Biota fruitlandi

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75
3 to 4 ft., B&B	2.00

Cedrus deodara

18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	1.75

Blue Lawson Cypress

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Juniper, Andorra

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.15
18 to 24 ins., B&B	1.40
24 to 30 ins., B&B	1.75

Juniper, Pfitzer

Juniper, Pfitzer compacta	
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, Pfitzer nana

12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.75
30 to 36 ins., B&B	2.50

Juniper, Pfitzer Blue (Hill's Strain)

10 to 12 ins., B&B	1.00
12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
24 to 30 ins., B&B	2.25
30 to 36 ins., B&B	2.50

Juniper, Blue-Gray

Juniper, glauca hetzli	
12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.75
30 to 36 ins., B&B	2.25

Juniper, chinensis fortunei

15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50
24 to 30 ins., B&B	1.75

	Each	25 or more
Juniper, chinensis densa glauca		
15 to 18 ins., B&B	\$1.25	
2 to 3 ft., B&B	1.75	

Juniper, excelsa stricta

12 to 15 ins., B&B	.85
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50
30 to 36 ins., B&B	2.25
3 to 4 ft., B&B	2.75

Juniper, hibernica fastigiata

24 to 30 ins., B&B	.90
30 to 36 ins., B&B	1.00

Juniper, sabina tamariscifolia

12 to 15 ins., B&B	1.25
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Juniper, virginiana burki

24 to 30 ins., B&B	1.75
30 to 36 ins., B&B	2.00

Juniper, virginiana burki compacta

(A counterpart of the well-known J. virginiana burki, except that this one is a beautiful spreading type, maintaining the well-known color of the upright form.)

12 to 15 ins., B&B	1.25
15 to 18 ins., B&B	1.50
18 to 24 ins., B&B	1.75
24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.50

Juniper, virginiana canaertii

24 to 30 ins., B&B	2.25
30 to 36 ins., B&B	2.50

Juniper, virginiana Dundee

30 to 36 ins., B&B	2.50
3 to 4 ft., B&B	3.50

Juniper, virginiana keteleeri

24 to 30 ins., B&B	2.00
30 to 36 ins., B&B	2.25
5 to 6 ft., B&B	3.50

Thuja occidentalis Hetz Winter Green

Thuja occidentalis pyramidalis	
12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
2 to 3 ft., B&B	1.50

Berberis julianae

12 to 15 ins., B&B	1.00
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Berberis sargentiana

12 to 15 ins., B&B	.90
24 to 30 ins., B&B	1.50

Buxus sempervirens croni

10 to 12 ins., B&B	.90
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25
18 to 24 ins., B&B	1.50

Camellia sasanqua, Maiden's Blush

18 to 24 ins., B&B	1.25
2 to 3 ft., B&B	1.50

Cleyera japonica (Ternstroemia)

12 to 15 ins., B&B	.85
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Elaeagnus fruitlandi

15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00
4 to 5 ft., B&B	1.50

Euonymus japonicus aureo-variegatus

10 to 12 ins., B&B	.90
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Euonymus radicans erectus

12 to 15 ins., B&B	.60
15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90

(Deduct 50% if wanted B.R.)

Gardenia radicans

12 to 15 ins., B&B	.70
15 to 18 ins., B&B	.80

Hex cornuta burfordi

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Hex cornuta, seedlings

15 to 18 ins., B&B	.90
18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex crenata convexa bullata

10 to 12 ins., B&B	.90
12 to 15 ins., B&B	1.00

Hex crenata hetzli

10 to 12 ins., B&B	.85
12 to 15 ins., B&B	1.00
15 to 18 ins., B&B	1.25

Hex crenata rotundifolia

12 to 15 ins., B&B	\$1.00
15 to 18 ins., B&B	1.25

Hex glabra (Inkberry)

15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25
24 to 30 ins., B&B	1.50

Hex opaca East Palatka

24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex opaca femina

3 to 4 ft., B&B	2.50
4 to 5 ft., B&B	2.75

Hex opaca Howard

18 to 24 ins., B&B	1.00
24 to 30 ins., B&B	1.25
30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	2.00
4 to 5 ft., B&B	2.50

Hex opaca Howard, seedlings

3 to 4 ft., B&B	2.00
5 to 6 ft., B&B	2.75
6 to 8 ft., B&B	4.00

Hex vomitoria, dwarf

24 to 30 ins., B&B	2.50
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Jasminum floridum

18 to 24 ins., B&B	.75
2 to 3 ft., B&B	.90

(Deduct 50% if wanted B.R.)

Laurel, Cherry

2 to 3 ft., B&B	1.25
3 to 4 ft., B&B	1.50

Ligustrum ionandrum

A government introduction. (Very small leaves, low growing and bushy. Forms a perfect specimen without shearing.)

12 to 15 ins., B&B	.90
15 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Ligustrum japonicum

3 to 4 ft., B&B	1.25
4 to 5 ft., B&B	1.50

Ligustrum lucidum compactum

18 to 24 ins., B&B	.85
24 to 30 ins., B&B	1.00
30 to 36 ins., B&B	1.25

Magnolia grandiflora

18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25
3 to 4 ft., B&B	1.75

Nandina domestica

12 to 15 ins., B&B	.60
15 to 18 ins., B&B	.75
18 to 24 ins., B&B	.90
24 to 30 ins., B&B	1.10

Osmanthus fortunei

12 to 15 ins., B&B	.75
15 to 18 ins., B&B	.90

Photinia serrulata

12 to 15 ins., B&B	.80
15 to 18 ins., B&B	.90
18 to 24 ins., B&B	1.00
2 to 3 ft., B&B	1.25

Viburnum tinus

30 to 36 ins., B&B	1.50
3 to 4 ft., B&B	1.75

Acer palmatum atropurpureum,

seedlings (Japanese Red-Leaved Maple)

12 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.50

Barberry, Red-Leaved

12 to 18 ins., B&B	1.00
18 to 24 ins., B&B	1.25

Cornus florida

2 to 3 ft., B&B	1.00
3 to 4 ft., B&B	1.40

Cornus florida rubra

18 to 24 ins., B&B	1.25
3 to 4 ft., B&B	2.50

Crape Myrtle, Wm. Toovey

18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00

Cydonia japonica

18 to 24 ins., B&B	.90
2 to 3 ft., B&B	1.00

(Deduct 50% if wanted B.R.)

Lonicera, Flaming Beauty

12 to 18 ins., B&B	.85
18 to 24 ins., B&B	1.00

Spiraea reevesiana flore-pleno

3 to 4 ft., B&B	1.00
4 to 5 ft., B&B	1.25

J. G. OWEN & SON, INC.

Columbus, Miss.

LINING-OUT STOCK

	Each Per 100	Each Per 1000		Each Per 100	Each Per 1000
<p>All potted liners in this list will be shipped in paper cups or pots without extra charge. Orders for 25 to 249 of a variety in one size take the 100 rate. Orders for 250 or more in a variety in one size take the 1000 rate.</p>					
<i>Biota aurea nana</i> (Berkmans)			**Taxus cuspidata		
<i>Biota aurea pyramidalis compacta</i>			Taxus intermedia		
<i>Biota bakeri</i>			Taxus andersonii		
<i>Biota Blue Cone</i>			Taxus media browni , rooted cuttings only		
<i>Biota Bonita</i>			**Taxus media hickii		
<i>Biota Bonita</i> , upright			Taxus media browni , rooted cuttings only		
<i>Biota excelsa</i>			4 to 6 ins., rooted cuttings	\$0.08	\$0.06
<i>Biota fruitlandi</i>			2 1/2-in. pots	.12	.10
<i>Biota sibirica</i>	\$0.17	\$0.15	2 1/2-in. pots	.14	.12
Strong rooted cuttings	.18	.16	(Varieties marked by (**) double asterisk, available in rooted cuttings and 2 1/2-in. pots.)		
Chilodendron marked by (**) double asterisk	.10	.08	<i>Abelia grandiflora</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.15	.14
<i>Chilodendron</i>			2 1/2-in. pots	.16	.15
<i>Chilodendron</i>			<i>Berberis julianae</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.17	.16
<i>Chilodendron</i>			2 1/2-in. pots	.18	.17
<i>Chilodendron</i>			<i>Buxus japonica</i>		
<i>Chilodendron</i>			2 1/2-in. pots, heavy	.11	.10
<i>Chilodendron</i>			2 1/2-in. pots, heavy	.12	.11
<i>Chilodendron</i>			<i>Cleyera japonica</i> (Ternstroemia)		
<i>Chilodendron</i>			2 1/2-in. pots	.18	.17
<i>Chilodendron</i>			<i>Cleyera ochracea</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.17	.16
<i>Chilodendron</i>			2 1/2-in. pots	.19	.18
<i>Chilodendron</i>			3-in. pots	.21	.20
<i>Chilodendron</i>			<i>Elaeagnus fruitlandi</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.13	.12
<i>Chilodendron</i>			2 1/2-in. pots	.15	.14
<i>Chilodendron</i>			<i>Elaeagnus pungens</i> , dwarf		
<i>Chilodendron</i>			2 1/2-in. pots	.19	.18
<i>Chilodendron</i>			2 1/2-in. pots	.21	.20
<i>Chilodendron</i>			<i>Euonymus japonicus aureo-variegatus</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.17	.16
<i>Chilodendron</i>			<i>Euonymus radicans erectus</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.10	.09
<i>Chilodendron</i>			<i>Hedera helix</i> (English Ivy)		
<i>Chilodendron</i>			2 1/2-in. pots	.11	.10
<i>Chilodendron</i>			2 1/2-in. pots	.13	.12
<i>Chilodendron</i>			<i>Gardenia fortunei</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.16	.15
<i>Chilodendron</i>			<i>Ilex cornuta femina</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.13	.12
<i>Chilodendron</i>			2 1/2-in. pots	.15	.14
<i>Chilodendron</i>			<i>Ilex crenata buxifolia</i>		
<i>Chilodendron</i>			<i>Ilex crenata repandens</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.13	.12
<i>Chilodendron</i>			2 1/2-in. pots	.15	.14
<i>Chilodendron</i>			<i>Ilex crenata convexa bullata</i>		
<i>Chilodendron</i>			<i>Ilex crenata hetzi</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.14	.13
<i>Chilodendron</i>			2 1/2-in. pots	.15	.14
<i>Chilodendron</i>			4x 6 ins., beds, well-br.	.14	.13
<i>Chilodendron</i>			6x 8 ins., beds, well-br.	.15	.14
<i>Chilodendron</i>			8x12 ins., beds, well-br.	.17	.16
<i>Chilodendron</i>			<i>Ilex crenata rotundifolia</i>		
<i>Chilodendron</i>			2 1/2-in. pots	.15	.14
<i>Chilodendron</i>			6x 8 ins., bed-grown	.12	.11
<i>Chilodendron</i>			6x 8 ins., field-grown	.16	.15
<i>Chilodendron</i>			8x12 ins., field-grown	.18	.17
<i>Chilodendron</i>			<i>Ilex opaca femina</i>		
<i>Chilodendron</i>			12 to 18 ins.	.50	.40
<i>Chilodendron</i>			12 to 15 ins.	.55	.45
<i>Chilodendron</i>			12 to 12 ins.	.65	.55
<i>Chilodendron</i>			12 to 15 ins.	.75	.65
<i>Chilodendron</i>			12 to 18 ins.	.85	.75
<i>Chilodendron</i>			12 to 15 ins.	.95	.85
<i>Chilodendron</i>			12 to 12 ins.	1.00	.90
<i>Chilodendron</i>			12 to 15 ins.	1.10	1.00
<i>Chilodendron</i>			12 to 18 ins.	1.20	1.10
<i>Chilodendron</i>			12 to 15 ins.	1.30	1.20
<i>Chilodendron</i>			12 to 12 ins.	1.40	1.30
<i>Chilodendron</i>			12 to 15 ins.	1.50	1.40
<i>Chilodendron</i>			12 to 18 ins.	1.60	1.50
<i>Chilodendron</i>			12 to 15 ins.	1.70	1.60
<i>Chilodendron</i>			12 to 12 ins.	1.80	1.70
<i>Chilodendron</i>			12 to 15 ins.	1.90	1.80
<i>Chilodendron</i>			12 to 18 ins.	2.00	1.90
<i>Chilodendron</i>			12 to 15 ins.	2.10	2.00
<i>Chilodendron</i>			12 to 12 ins.	2.20	2.10
<i>Chilodendron</i>			12 to 15 ins.	2.30	2.20
<i>Chilodendron</i>			12 to 18 ins.	2.40	2.30
<i>Chilodendron</i>			12 to 15 ins.	2.50	2.40
<i>Chilodendron</i>			12 to 12 ins.	2.60	2.50
<i>Chilodendron</i>			12 to 15 ins.	2.70	2.60
<i>Chilodendron</i>			12 to 18 ins.	2.80	2.70
<i>Chilodendron</i>			12 to 15 ins.	2.90	2.80
<i>Chilodendron</i>			12 to 12 ins.	3.00	2.90
<i>Chilodendron</i>			12 to 15 ins.	3.10	3.00
<i>Chilodendron</i>			12 to 18 ins.	3.20	3.10
<i>Chilodendron</i>			12 to 15 ins.	3.30	3.20
<i>Chilodendron</i>			12 to 12 ins.	3.40	3.30
<i>Chilodendron</i>			12 to 15 ins.	3.50	3.40
<i>Chilodendron</i>			12 to 18 ins.	3.60	3.50
<i>Chilodendron</i>			12 to 15 ins.	3.70	3.60
<i>Chilodendron</i>			12 to 12 ins.	3.80	3.70
<i>Chilodendron</i>			12 to 15 ins.	3.90	3.80
<i>Chilodendron</i>			12 to 18 ins.	4.00	3.90
<i>Chilodendron</i>			12 to 15 ins.	4.10	4.00
<i>Chilodendron</i>			12 to 12 ins.	4.20	4.10
<i>Chilodendron</i>			12 to 15 ins.	4.30	4.20
<i>Chilodendron</i>			12 to 18 ins.	4.40	4.30
<i>Chilodendron</i>			12 to 15 ins.	4.50	4.40
<i>Chilodendron</i>			12 to 12 ins.	4.60	4.50
<i>Chilodendron</i>			12 to 15 ins.	4.70	4.60
<i>Chilodendron</i>			12 to 18 ins.	4.80	4.70
<i>Chilodendron</i>			12 to 15 ins.	4.90	4.80
<i>Chilodendron</i>			12 to 12 ins.	5.00	4.90
<i>Chilodendron</i>			12 to 15 ins.	5.10	5.00
<i>Chilodendron</i>			12 to 18 ins.	5.20	5.10
<i>Chilodendron</i>			12 to 15 ins.	5.30	5.20
<i>Chilodendron</i>			12 to 12 ins.	5.40	5.30
<i>Chilodendron</i>			12 to 15 ins.	5.50	5.40
<i>Chilodendron</i>			12 to 18 ins.	5.60	5.50
<i>Chilodendron</i>			12 to 15 ins.	5.70	5.60
<i>Chilodendron</i>			12 to 12 ins.	5.80	5.70
<i>Chilodendron</i>			12 to 15 ins.	5.90	5.80
<i>Chilodendron</i>			12 to 18 ins.	6.00	5.90
<i>Chilodendron</i>			12 to 15 ins.	6.10	6.00
<i>Chilodendron</i>			12 to 12 ins.	6.20	6.10
<i>Chilodendron</i>			12 to 15 ins.	6.30	6.20
<i>Chilodendron</i>			12 to 18 ins.	6.40	6.30
<i>Chilodendron</i>			12 to 15 ins.	6.50	6.40
<i>Chilodendron</i>			12 to 12 ins.	6.60	6.50
<i>Chilodendron</i>			12 to 15 ins.	6.70	6.60
<i>Chilodendron</i>			12 to 18 ins.	6.80	6.70
<i>Chilodendron</i>			12 to 15 ins.	6.90	6.80
<i>Chilodendron</i>			12 to 12 ins.	7.00	6.90
<i>Chilodendron</i>			12 to 15 ins.	7.10	7.00
<i>Chilodendron</i>			12 to 18 ins.	7.20	7.10
<i>Chilodendron</i>			12 to 15 ins.	7.30	7.20
<i>Chilodendron</i>			12 to 12 ins.	7.40	7.30
<i>Chilodendron</i>			12 to 15 ins.	7.50	7.40
<i>Chilodendron</i>			12 to 18 ins.	7.60	7.50
<i>Chilodendron</i>			12 to 15 ins.	7.70	7.60
<i>Chilodendron</i>			12 to 12 ins.	7.80	7.70
<i>Chilodendron</i>			12 to 15 ins.	7.90	7.80
<i>Chilodendron</i>			12 to 18 ins.	8.00	7.90
<i>Chilodendron</i>			12 to 15 ins.	8.10	8.00
<i>Chilodendron</i>			12 to 12 ins.	8.20	8.10
<i>Chilodendron</i>			12 to 15 ins.	8.30	8.20
<i>Chilodendron</i>			12 to 18 ins.	8.40	8.30
<i>Chilodendron</i>			12 to 15 ins.	8.50	8.40
<i>Chilodendron</i>			12 to 12 ins.	8.60	8.50
<i>Chilodendron</i>			12 to 15 ins.	8.70	8.60
<i>Chilodendron</i>			12 to 18 ins.	8.80	8.70
<i>Chilodendron</i>			12 to 15 ins.	8.90	8.80
<i>Chilodendron</i>			12 to 12 ins.	9.00	8.90
<i>Chilodendron</i>			12 to 15 ins.	9.10	9.00
<i>Chilodendron</i>			12 to 18 ins.	9.20	9.10
<i>Chilodendron</i>			12 to 15 ins.	9.30	9.20
<i>Chilodendron</i>			12 to 12 ins.	9.40	9.30
<i>Chilodendron</i>			12 to 15 ins.	9.50	9.40
<i>Chilodendron</i>			12 to 18 ins.	9.60	9.50
<i>Chilodendron</i>			12 to 15 ins.	9.70	9.60
<i>Chilodendron</i>			12 to 12 ins.	9.80	9.70
<i>Chilodendron</i>			12 to 15 ins.	9.90	9.80
<i>Chilodendron</i>			12 to 18 ins.	10.00	9.90
<i>Chilodendron</i>			12 to 15 ins.	10.10	10.00
<i>Chilodendron</i>			12 to 12 ins.	10.20	10.10
<i>Chilodendron</i>			12 to 15 ins.	10.30	10.20
<i>Chilodendron</i>			12 to 18 ins.	10.40	10.30
<i>Chilodendron</i>			12 to 15 ins.	10.50	10.40
<i>Chilodendron</i>			12 to 12 ins.	10.60	10.50
<i>Chilodendron</i>			12 to 15 ins.	10.70	10.60
<i>Chilodendron</i>			12 to 18 ins.	10.80	10.70
<i>Chilodendron</i>			12 to 15 ins.	10.90	10.80
<i>Chilodendron</i>			12 to 12 ins.	11.00	10.90
<i>Chilodendron</i>			12 to 15 ins.	11.10	11.00
<i>Chilodendron</i>			12 to 18 ins.	11.20	11.10
<i>Chilodendron</i>			12 to 15 ins.	11.30	11.20
<i>Chilodendron</i>			12 to 12 ins.	11.40	11.30
<i>Chilodendron</i>			12 to 15 ins.	11.50	11.40
<i>Chilodendron</i>			12 to 18 ins.	11.60	11.50
<i>Chilodendron</i>			12 to 15 ins.	11.70	11.60
<i>Chilodendron</i>			12 to 12 ins.	11.80	11.70
<i>Chilodendron</i>			12 to 15 ins.	11.90	11.80
<i>Chilodendron</i>			12 to 18 ins.	12.00	11.90
<i>Chilodendron</i>			12 to 15 ins.	12.10	12.00
<i>Chilodendron</i>			12 to 12 ins.	12.20	12.10
<i>Chilodendron</i>			12 to 15 ins.	12.30	12.20
<i>Chilodendron</i>			12 to 18 ins.	12.40	12.30
<i>Chilodendron</i>			12 to 15 ins.	12.50	12.40
<i>Chilodendron</i>			12 to 12 ins.	12.60	12.50
<i>Chilodendron</i>			12 to 15 ins.	12.70	12.60
<i>Chilodendron</i>			12 to 18 ins.	12.80	12.70
<i>Chilodendron</i>			12 to 15 ins.	12.90	12.80
<i>Chilodendron</i>			12 to 12 ins.	13.00	12.90
<i>Chilodendron</i>			12 to 15 ins.	13.10	13.00
<i>Chilodendron</i>			12 to 18 ins.	13.20	13.10
<i>Chilodendron</i>			12 to 15 ins.	13.30	13.20
<i>Chilodendron</i>			12 to 12 ins.	13.40	13.30
<i>Chilodendron</i>			12 to 15 ins.	13.50	13.40
<i>Chilodendron</i>			12 to 18 ins.	13.60	13.50
<i>Chilodendron</i>			12 to 15 ins.	13.70	13.60
<i>Chilodendron</i>			12 to 12 ins.	13.80	13.70
<i>Chilodendron</i>			12 to 15 ins.	13.90	13.80
<i>Chilodendron</i>			12 to 18 ins.	14.00	13.90
<i>Chilodendron</i>			12 to 15 ins.	14.10	14.00
<i>Chilodendron</i>			12 to 12 ins.	14.20	14.10
<i>Chilodendron</i>			12 to 15 ins.	14.30	14.20
<i>Chilodendron</i>			12 to 18 ins.	14.40	14.30
<i>Chilodendron</i>			12 to 15 ins.	14.50	14.40
<i>Chilodendron</i>			12 to 12 ins.	14.60	14.50
<i>Chilodendron</i>			12 to 15 ins.	14.70	14.60
<i>Chilodendron</i>			12 to 18 ins.	14.80	14.70
<i>Chilodendron</i>			12 to 15 ins.	14.90	14.80
<i>Chilodendron</i>			12 to 12 ins.	15.00	14.90
<i>Chilodendron</i>			12 to 15 ins.	15.10	15.00

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RICHMOND 25, VIRGINIA

LINING-OUT STOCK — 2 1/4-IN. POTS

	Per 100	Per 1000		Per 100	Per 1000
ABELIA grandiflora	\$15.00	\$125.00	NANDINA DOMESTICA, B. R.	\$15.00	\$125.00
AUCUBA			OSMANTHUS		
Japonica	17.50	150.00	Aquifolium	20.00	185.00
Japonica variegata	17.50	150.00	PHOTINIA		
BERBERIS			Serrulata	20.00	185.00
Candidula	22.50	200.00	PYRACANTHA		
Julianae nana	22.50	200.00	Crenato-serrata, red	20.00	185.00
BUXUS			Lalandi, orange	22.50	200.00
Sempervirens, heavy			Rogersiana	22.50	200.00
R. C.	7.50	50.00	TEUCRIUM		
Suffruticosa, R. C.	10.00	75.00	CHAMAEDRYIS	15.00	125.00
CHAMAECYPARIS (RETINOSPORA)			THUJA (Arborvitae),		
Cyano Viridis	22.50	200.00	American		
COTONEASTER			(nigra compacta)	20.00	185.00
Francheti	12.50	100.00	Bakeri	20.00	185.00
Praecox	20.00	185.00	Elegantissima	20.00	185.00
Repens, evergreen, hardy.			Globosa (Globe)	20.00	185.00
More spreading than			Pyramidalis	20.00	185.00
horizontalis	15.00	125.00			
CUNNINGHAMIA LANCEOLATA					
Glauc (blue)	20.00	185.00			
DEUTZIA					
Gracilis	12.50	100.00			
ELAEAGNUS					
Pungens compacta	20.00	185.00			
ILEX					
Crenata convexa	18.50	175.00			
Crenata microphylla	20.00	185.00			
Crenata microphylla					
erecta	20.00	185.00			
Crenata repandens	20.00	185.00			
Crenata rotundifolia	20.00	185.00			
Opaca, cuttings from					
choice berries					
plants	25.00	225.00			
Opaca Arden	25.00	225.00			
Opaca Croonenburg	25.00	225.00			
Opaca Ruby Red	30.00	275.00			
JUNIPERUS					
Andorra	22.50	200.00			
Conferta litoralis					
(Shore Juniper)	22.50	200.00			
Hibernica					
(Irish Juniper)	17.50	150.00			
Pfitzeriana	20.00	185.00			
Pfitzeriana glauca	22.50	200.00			
Sargentii	20.00	185.00			
Stricta	20.00	185.00			
Waukegan	20.00	185.00			
LIGUSTRUM					
Lucidum	17.50	150.00			
Lucidum nobilis	20.00	175.00			
Lucidum recurvifolium	17.50	150.00			
MAGNOLIA					
Grandiflora,					
6 to 8 ins., B. R.	15.00	125.00			

All plants are well established. 2 1/4-in. pots. 250 of one variety at 1000 rate.

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sary of that event. The society's first national rose show was held at San Diego during the exposition there in 1935.

LOUISIANA SHORT COURSE

James A. Foret, professor of horticulture, University of Southwestern Louisiana, Lafayette, La., announces that the annual short course for Louisiana nurserymen has been scheduled for May 29 to 31 this year. Sessions will be held on the university campus at Lafayette.

SOUTH CAROLINA MEETING

George Gottlieb, executive secretary-treasurer of the South Carolina Nurserymen's Association, announced that June 11 to 13 are scheduled as the dates for the annual S. C. N. A. convention this year. The convention committee, under the direction of Vice-president James Aichele, Carolina Floral Nursery, Mount Holly, and C. Norwood Hastie, Magnolia Gardens & Nurseries, John's Island, is planning a full program for the meeting, which will be held at the Francis Marion hotel, Charleston, S. C.

PLAINS-NEW MEXICO MEET

The seventh annual joint convention of the Plains Nurserymen's Association and the New Mexico Association of Nurserymen is scheduled to be held June 25 to 27, according to Mrs. Harold D. Means, the secretary-treasurer of the New Mexico group. Headquarters for the sessions will be the Western Skies motel, Albuquerque, N. M.

RHODODENDRON EVENT

Dr. Russell J. Seibert, director, Longwood Gardens, Kennett Square, Pa., and Dr. Clement Gray Bowers, author and lecturer, are among the speakers scheduled to appear at the spring meeting of the Middle Atlantic chapter, American Rhododendron Society, April 28 to 30 at Charlottesville, Va. With headquarters at the Thomas Jefferson Inn, the meeting will feature a series of special tours of private gardens in the area. Dr. Thomas Wheelton, proprietor of Gladagay Gardens Nursery, Richmond, Va., is president of the host chapter.

EXPANDING operations of the M. V. Nursery Co., El Sobrante, Calif., to include five acres at North Richmond, Calif., is Mike Vukelich, owner.



Greenhouse manager, FRED J. WERNER, examines clean soil as MR. STUBER looks on with approval. Photo at left shows part of 6,000 square foot area treated with VAPAM more than six weeks previously.

"VAPAM® cleans soil better than anything else"

Says: FRED STUBER, Yonkers, N. Y., nurseryman

Stuber's Flower Shop and nursery has catered to the public in southern Westchester County, N. Y., since 1888. Stuber's grows most of its own plants and flowers, and retails all it grows. Third generation Fred Stuber, now president of the firm, has this to say about VAPAM soil fumigant:

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VAPAM gives us better control than anything we have ever used."

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that it pays to clean soil with VAPAM. Just one pre-plant application knocks out weeds, nematodes and most other soil pests.

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© Stauffer's Reg. T.M. for a soil fumigant.

LINERS

CONIFERS

T.—Once Transplanted TT.—Twice Transplanted

	Per 100
<i>Chamaecyparis lawsoniana</i> (Lawson Cypress)	
Seedlings, not transplanted, 8 to 12 ins.	\$ 6.00
<i>Chamaecyparis lawsoniana fletcheri</i> (Fletcher Cypress), 12 to 15 ins., T. (10 for \$2.50)	18.00
<i>Chamaecyparis lawsoniana forstckiana</i> (Fothall Cypress), 2 to 4 ins., T.	16.00
<i>Chamaecyparis lawsoniana lutea</i> (Golden Lawson Cypress), 6 to 12 ins., TT.	24.00
<i>Chamaecyparis lawsoniana nestoides</i> (nidiformis), 4 to 6 ins., T.	15.00
<i>Chamaecyparis pisifera squarrosa nana</i> 3 to 5 ins., T.	16.00
<i>Cryptomeria japonica lobbi</i> , 2 to 4 ins., T.	16.00
<i>Cryptomeria japonica nana</i> , 2 to 4 ins., T.	16.00
<i>Juniperus chinensis pfitzeriana aurea</i> 6 to 9 ins., T. (10 for \$3.00)	25.00
<i>Juniperus chinensis pfitzeriana Old Gold</i> , new, A more dwarf and brighter Golden Pfitzer, 3 to 5 ins., T. (10 for \$4.00)	35.00
<i>Juniperus (sinensis?) Blauw's</i> 3 to 5 ins., T. (10 for \$3.00)	25.00
4 to 8 ins., T. (10 for \$4.00)	35.00
<i>Juniperus (sinensis?) bandi supi aurea</i> Not sure of the name. Looks like Blauw's except g.d. Makes a beautiful plant. Rare and choice.	25.00
2 to 4 ins., T. (10 for \$3.00)	25.00
4 to 6 ins., T. (10 for \$4.00)	35.00
<i>Juniperus virginiana tripartita</i> , 4 to 8 ins., T.	20.00
<i>Picea abies</i> (Norway Spruce) 3 to 6 ins., T.	10.00
6 to 9 ins., T., light	14.00
<i>Picea glauca conica</i> (Dwarf Alberta Spruce) 6 to 9 ins., T. (10 for \$3.50). Limit 50	14.00
<i>Picea pungens glauca</i> (Colorado Blue Spruce), 3 to 6 ins., T., grown from seed	14.00
<i>Pinus mughus</i> (Mugho Pine), Tyrolean strain, 2 to 4 ins., T., light	10.00
<i>Taxus baccata aurea</i> , 4 to 8 ins., TTT.	26.00
<i>Taxus baccata procumbens</i> (Prostrate English Yew), 6 to 9 ins., T.	20.00
<i>Taxus cuspidata nana</i> (Dwarf Japanese Yew) 2 to 3 ins., T.	14.00
3 to 6 ins., T.	18.00
<i>Thuja orientalis bakeri</i> 6 to 8 ins., T.	14.00
8 to 12 ins., T.	16.00

BROAD-LEAVED EVERGREENS

	Per 100
<i>Abelia grandiflora sherwoodii</i> (Dwarf Abelia), R. C.	\$ 6.00
<i>Andromeda polifolia nana</i> , R. C.	8.00
<i>Buxus sempervirens, variegated</i> 2 to 4 ins., TT.	18.00
4 to 8 ins., TT.	26.00
<i>Ilex aquifolium</i> (English Holly) 12 to 24 ins., TT. (10 for \$5.00)	45.00
<i>Kalmia latifolia</i> (Mountain Laurel) 2 to 4 ins., TT.	16.00
<i>Laurocerasus zabeliana</i> 10 to 18 ins., T.	20.00
12 to 18 ins., TT.	26.00

CORNUS REGISTRATION LIST

The first two issues of *Arnoldia* for 1961, which contain (1) the methods by which we have assimilated the cornus list of cultivars for registration purposes and (2) the first of a series of registration lists which we hope to publish in the pages of *Arnoldia* during the current year, are now available.

This work is being done not only by several of the staff members at the Arnold Arboretum, but also by over a dozen individuals at other institutions throughout the United States under the general supervision and direction of a committee of the



Pieris japonica variegata

BROAD-LEAVED EVERGREENS—Continued	
	Per 100
<i>Pieris forrestii</i> , grown from cuttings 6 to 12 ins., TT., tall	\$45.00
12 to 18 ins., br., TT. (10 for \$7.50)	
<i>Pieris forrestii</i> , special New growth brilliant wine-red. T. (10 for \$6.50)	60.00
<i>Pieris forrestii</i> , bright red New growth bright red. T. (10 for \$6.50)	60.00
<i>Pieris japonica</i> , deep pink. New Buds and flower stems red. Pink flowers. T. (10 for \$8.50)	80.00
<i>Pieris japonica variegata</i> Much like the above but with white edge on leaf. White flowers. 2 to 4 ins., heavy, P., T.	25.00
4 to 6 ins., heavy, P., TT. (10 for \$4.50)	40.00
6 to 9 ins., heavy, P., TT. (10 for \$7.50)	65.00
<i>Pyracantha coccinea Lowboy</i> (Lowboy Fire Thorn), R. C.	10.00
T.	16.00
<i>Sarcococca hookeriana</i> 6 to 12 ins., TTT. (10 for \$3.00)	25.00
<i>Skimmia japonica</i> , white berried 8 to 12 ins., T.	18.00
<i>Skimmia japonica</i> , dwarf female 4 to 8 ins., T.	16.00
<i>Skimmia japonica</i> , dwarf red male. The flower buds and stems are reddish through the winter. Choice and rare. 4 to 8 ins., T. (10 for \$2.80)	24.00

RHODODENDRONS

	Per 100
Blue Bird, mixed. These may also have another dwarf blue mixed in such as Augfast, T.	\$14.00

RHODODENDRONS—Continued

	Per 100
Blue Diamond, T. (10 for \$2.50)	\$20.00
Bowbells, T. (10 for \$6.00)	50.00
Cynthia, T. (10 for \$6.50)	60.00
Elizabeth, good-growing plant to about 3 ft., growing wider than high. The 3-in. wide by 2½-in.-long flowers are deep red and appear in late April. Buds very heavily even when young. One of the best to grow, T. (10 for \$5.00)	45.00
4 to 6 ins., TT., lightly br. (10 for \$10.00)	90.00
Goblin, red form. Funnel-shaped blooms. T.	60.00
Jock, Williamsianum hybrid with bell-shaped dark pink flowers. One of the best dwarf pinks. T. (10 for \$6.50)	60.00
4 to 8 ins., TT., lightly br. (10 for \$10.00)	90.00
Moonstone, dwarf cream. One of the most attractive for foliage. T. (10 for \$5.00)	45.00
Mrs. E. C. Stirling, bluish-pink T. (10 for \$7.50)	70.00
Pemakoense, very dwarf, pink-mauve flowers in early April. T. (10 for \$2.50)	20.00
Vulcan, bright scarlet. Hardy, good grower and blooms very young. T. (10 for \$8.00)	75.00

HEATHERS

	Per 100
Daboecia praegeri, bright deep rose-pink. An outstanding variety, T.	\$14.00
Erica carnea vivella, T.	12.00
Erica cinerea C. D. Eason, T.	12.00
Erica mediterranea Radcliff White flowers on dwarf-growing upright plants. 2 to 3 ins., TT.	20.00

MITSCH NURSERY

Aurora, Ore.

American Association of Botanical Gardens and Arboreta. Authority has been passed on along the line from the International Committee on Horticultural Nomenclature and now the actual work is starting to be done by various interested workers. These lists, which are now beginning to appear, are a first step in straightening out the cultivar names in many of these woody genera.

The printed issues of *Arnoldia* are available at 20 cents each for as long as the supply lasts. That of January 20, volume 21, No. 1, is titled "Concerning the Registration of Cultivar Names." The second, January 27,

volume 21, No. 2, "Registration Lists of Cultivar Names in Cornus," contains two lists, one of all the cultivar names, old and new, alphabetically arranged, and a second list, arranged by species, with bibliographic references. They may be obtained from the Arnold Arboretum, Jamaica Plain 30, Mass. Donald Wyman.

DEVELOPING a shade tree nursery on his 350-acre farm between Germantown and Nonconah Creek, Tenn., is Edward Allen, head of the special services and networks division of United Press International, New York.

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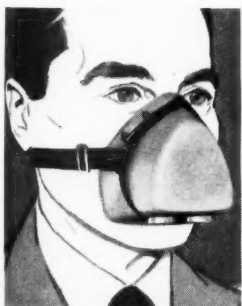
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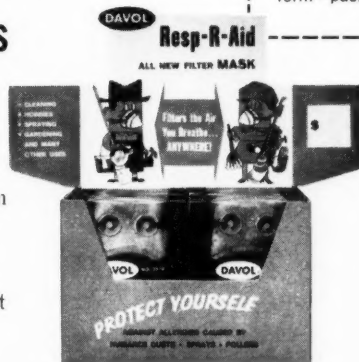
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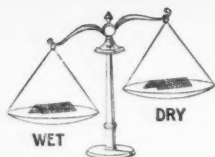


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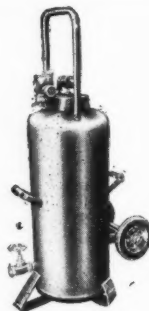
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COVER ILLUSTRATION

Thuja Plicata

Thuja plicata, the giant arborvitae, is one of the most important lumber trees of the Pacific northwest, some specimens growing to nearly 200 feet in height. When its use as an ornamental is to be considered, it is important to note that there are actually two forms of this tree as far as hardness is concerned.

The Pacific coast type, which grows in large forests, is hardly only in zone 6, while trees which have had to struggle for existence on the higher mountains of Utah and Montana yield seedlings that are perfectly hardy as far north as Boston, Mass., in zone 5.

In short, trees of the hardy strain of this species are the best of the arborvitae trees for ornamental use in the north. The foliage is an excellent, lustrous green, turning a delightful bronze in the fall and retaining this color all winter. It does not turn an unsightly brown, as does the foliage of almost all the *Thuja occidentalis* varieties.

Added is the fact that the trees grow fast and vigorously, quickly making dense pyramids of lustrous green foliage. It is of interest to note that varieties of this species are practically unknown in the Pacific northwest where it is native. One author who has lived in the area a long time and is supposed to know the plant material there as well as anyone, wrote in 1943 that "apparently it (i.e., *T. plicata*) has produced no varietal forms either in the wild or in cultivation." However, a study of European catalogs discloses the fact that no less than 18 varieties have appeared and been named.

These certainly should be thoroughly tested in America. If some of them, like the slow-growing variety Hillier, prove to be of the hardy strain and hence can be grown in zone 5, they could take the place of *T. occidentalis* varieties because of their greater winter beauty.

So this lumber tree of the Pacific northwest makes an excellent ornamental on the eastern seaboard also. If any criticism can be pointed its way, it would be to the fact that it grows too vigorously and too tall.

Donald Wyman

OPENED recently at West Covina, Calif., was the Glenvine Nursery & Garden Shop, by Mr. and Mrs. Robert Broadwell.

QUALITY NURSERY STOCK

TREE AND SHRUB SEEDLINGS — LINERS

500 at the 1000 rate.

GREEN ASH	Per 100	Per 1000
(<i>Fraxinus lanceolata</i>)		
30,000 6 to 12 ins.	\$ 1.40	\$ 12.00
12,000 2 1/16 to 3 1/16-in. cal.		
5000 12 to 18 ins.	1.80	15.00
5000 12 to 18 ins.	2.60	22.00
1000 18 to 24 ins.	3.50	30.00
1500 2 to 3 ft.	4.00	40.00

CATALPA, WESTERN
(*Catalpa speciosa*)

4000 6 to 12 ins.	1.40	12.00
3000 12 to 18 ins.	2.40	20.00
3000 18 to 24 ins.	3.20	28.00
1000 2 to 3 ft.	4.00	35.00

ELM, AMERICAN
(*Ulmus americana*)

5000 6 to 12 ins.	1.25	10.00
2000 12 to 18 ins.	2.25	18.00
1000 18 to 24 ins.	3.00	25.00

ELM, CHINESE
(*Ulmus pumila*)

80,000 6 to 12 ins.	1.40	12.00
10,000 12 to 18 ins.	2.40	20.00
60,000 18 to 24 ins.	3.20	28.00
40,000 2 to 3 ft.	4.50	40.00

GOLDEN-RAIN TREE
(*Koeleruteria paniculata*)

5000 6 to 9 ins.	5.50	45.00
2000 9 to 12 ins.	9.00	80.00
2000 12 to 18 ins.	12.00	100.00

HACKBERRY
(*Celtis occidentalis*)

20,000 6 to 12 ins.	1.80	15.00
14,000 12 to 18 ins.	2.90	25.00
4000 18 to 24 ins.	4.50	40.00
500 2 to 3 ft.	7.00	60.00

HONEY LOCUST, THORNLESS
(*Gleditsia triacanthos inermis*)

30,000 6 to 12 ins.	1.70	14.00
20,000 12 to 18 ins.	2.30	20.00
15,000 18 to 24 ins.	3.30	30.00
15,000 3 1/16 to 5 1/16-in. cal., for understock	3.00	25.00

HONEYSUCKLE, TATARIAN
(*Lonicera tatarica*)

2100 6 to 12 ins.	3.50	30.00
650 12 to 18 ins.	4.50	40.00

KENTUCKY COFFEE TREE
(*Gymnocladus dioica*)

375 4 to 6 ins.	4.00	
500 6 to 9 ins.	6.00	55.00

LILAC, COMMON
(*Syringa vulgaris*)

500 6 to 9 ins.	3.50	30.00
500 9 to 12 ins.	4.50	40.00
200 12 to 18 ins.	8.00	
50 18 to 24 ins.	10.00	

LOCUST, BLACK
(*Robinia pseudoacacia*)

8000 6 to 12 ins.	1.40	12.00
9000 12 to 18 ins.	2.40	20.00
4000 18 to 24 ins.	3.20	28.00
3000 2 to 3 ft.	4.00	35.00
500 3 to 4 ft.	5.50	50.00

MAPLE, SILVER, soft
(*Acer saccharinum*)

800 6 to 12 ins.	2.40	20.00
2000 18 to 24 ins.	4.50	40.00

MIMOSA (*Albizia julibrissin*)
(Silk tree), northern strain

2500 12 to 18 ins.	7.00	60.00
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MULBERRY, RUSSIAN
(*Morus tatarica*)

14,000 6 to 12 ins.	1.40	12.00
1500 12 to 18 ins.	2.40	20.00
600 18 to 24 ins.	3.20	28.00
500 2 to 3 ft.	4.00	35.00

OSAGE ORANGE
(*Maclura pomifera*)

4000 6 to 12 ins.	1.40	12.00
3000 12 to 18 ins.	2.40	20.00
1500 18 to 24 ins.	3.20	28.00
2000 2 to 3 ft.	4.00	35.00
350 3 to 4 ft.	5.00	45.00

PAGODA TREE, JAPANESE (*Sophora japonica*) These are very heavy calliper for their height. The roots are heavier and about as long as the tops. Even the 6 to 9-in. size are excellent liners!

4000 6 to 9 ins.	5.00	45.00
1000 9 to 12 ins.	10.00	90.00

Tree and Shrub Seedlings—Liners—Contd.

PRUNUS BESSEY Per 100 Per 1000
(Hansen Bush Cherry)

1100 6 to 12 ins.	\$ 2.50	\$ 22.00
550 12 to 18 ins.	3.50	30.00
150 18 to 24 ins.	5.50	

REBUD, from northern seed, very nice.
(*Cercis canadensis*)

9500 6 to 12 ins.	5.00	40.00
4000 12 to 18 ins.	7.00	60.00
1500 18 to 24 ins.	8.00	75.00
800 2 to 3 ft.	12.50	110.00

ROSE MULTIFLORA, thorny type
50,000 6 to 12 ins.

(\$10.00 per 1000 in lots of 10,000 or more)	2.25	12.00
--	------	-------

10,000 2 1/16 to 3 1/16-in. cal. about 12 to 18 ins.

1000 2 to 3 ft.	2.70	17.00
	5.00	45.00

RUSSIAN OLIVE
(*Elaeagnus angustifolia*)

3500 6 to 12 ins.	2.40	20.00
3000 12 to 18 ins.	3.50	30.00
5000 18 to 24 ins.	5.00	45.00
4000 2 to 3 ft.	7.50	65.00

TAMARIX AFRICANA HEDGING
From cuttings grown 1 yr. in the field especially for windbreaks, shelterbelts and hedges. These are mostly single-cane plants, 2 to 4 ft. high which are cut back to about 12 ins. when graded.

6000 3 1/16 to 5 1/16-in. cal.	5.50	50.00
5000 5 1/16 to 3 7/8-in. cal.	6.50	60.00
1000 3 7/8-in. cal. and up.	7.50	75.00

EVERGREEN SEEDLINGS

Per 100 Per 1000

CHINESE ARBORVITAE
Rochester strain (2-0)
(*Thuja orientalis*)

3000 4 to 6 ins.	\$ 3.50	\$ 30.00
3000 6 to 9 ins.	4.50	40.00
2000 9 to 12 ins.		55.00
1000 12 to 15 ins.		70.00
500 15 to 18 ins.		100.00

JUNIPERUS VIRGINIANA (2-0),
Platte River Red Cedar
Although these will all caliper less than 2 1/16-in. they will make excellent liners or would be ideal to pot for grafting next fall.

30,000 4 to 6 ins.	4.50	40.00
25,000 6 to 9 ins.	6.00	55.00
10,000 9 to 12 ins.	6.50	60.00

MISCELLANEOUS POTTED LINERS

2 1/4-in. pots

	Per 100	Per 1000
100 ANDORRA JUNIPER	\$20.00	
100 VON EHREN		
500 CHINESE	20.00	\$180.00
ARBOREUTAE	20.00	180.00
EUNYMUS PATENS (K-54)		
MANHATTAN	20.00	180.00
EUNYMUS PATENS, SMALL-LEAVED	16.00	140.00
PYRAMIDAL COCCLEA	20.00	180.00
LALAND, hardy strain	20.00	180.00
HALL'S PURPLE-LEAVED		
HONEYSUCKLE	18.00	160.00

SHADE AND ORNAMENTAL TREES

30 trees at the 100 rate.

	Per 10	Per 100
ASH, GREEN (<i>Fraxinus lanceolata</i>)		
130 5 to 6 ft.	\$11.50	\$100.00
140 6 to 8 ft.	17.50	160.00
40 8 to 10 ft.	25.00	225.00

COTTONWOOD, PLAINS
(*Populus deltoides*)

80 4 to 5 ft.	5.00	40.00
130 5 to 6 ft.	6.00	50.00
80 6 to 8 ft.	8.50	75.00
40 8 to 10 ft.	11.00	100.00
20 10 to 12 ft.	15.00	135.00

GOLDEN-RAIN TREE
(*Koeleruteria paniculata*)

100 3 to 4 ft.	20.00	175.00
50 4 to 5 ft.	25.00	225.00
30 5 to 6 ft.	32.00	300.00

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Shade and Ornamental Trees—Contd.

HACKBERRY Per 100 Per 1000
(*Celtis occidentalis*)

70 4 to 5 ft.	\$ 9.00	\$ 85.00
100 5 to 6 ft.	13.50	125.00
150 6 to 8 ft.	22.50	200.00
100 8 to 10 ft.	28.50	275.00
50 10 1/2 to 1 1/2-in. cal.	37.50	350.00

CHINABERRY
(*Melia azedarach*)

20 4 to 5 ft.	9.00	
50 5 to 6 ft.	11.00	100.00

BLACK LOCUST
(*Robinia pseudoacacia*)

30 4 to 5 ft.	4.00	35.00
40 5 to 6 ft.	5.50	50.00
60 6 to 8 ft.	8.00	75.00

HONEY LOCUST, THORNLESS
(*Gleditsia triacanthos inermis*)

50 4 to 5 ft.	14.00	100.00
60 5 to 6 ft.	16.50	150.00
50 6 to 8 ft.	25.00	225.00

PAGODA TREE, JAPANESE
(*Sophora japonica*)

200 3 to 4 ft.	15.00	125.00
150 4 to 5 ft.	21.00	180.00
60 5 to 6 ft.	28.00	250.00

POPLAR, LOMBARDY
(*Populus nigra italica*)

50 6 to 8 ft.	6.00	50.00
150 8 to 10 ft.	7.00	65.00
150 10 to 12 ft.	11.00	100.00

POPLAR, SILVER
(*Populus alba*)

30 3 to 4 ft.	4.50	40.00
50 4 to 5 ft.	5.50	50.00
50 5 to 6 ft.	8.00	75.00

POPLAR, BOLLEANA
(*Populus canadensis*), 2-yr. T

50 8 to 10 ft.	19.00	175.00
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REBUD (*Cercis canadensis*)

50 5 to 6 ft.	19.00	175.00
50 6 to 7 ft.	25.00	225.00

RUSSIAN OLIVE
(*Elaeagnus angustifolia*)

200 4 to 5 ft.	8.00	75.00
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SYCAMORE (American Plane Tree)
(*Platanus occidentalis*)

50 4 to 5 ft.	9.00	85.00
100 5 to 6 ft.	11.00	100.00
60 6 to 8 ft.	19.00	175.00
50 8 to 10 ft.	28.00	250.00
40 1 1/4 to 1 1/2-in. cal.	32.00	300.00
20 1 1/2 to 1 3/4-in. cal.	40.00	

WISCONSIN WEeping WILLOW
(*Salix blanda*) Nice clean straight trees.

100 4 to 5 ft.	5.00	45.00
200 5 to 6 ft.	8.50	75.00
400 6 to 8 ft.	12.50	115.00
60 8 to 10 ft.	19.00	175.00

LARGE-FLOWERING, DWARF CANNAS

Strong 3 to 5-eye divisions, properly cured. Kansas (northern) grown on sandy, irrigated soil.

Per 100 Per 1000

50 at the 100 rate:

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5000 **PRESIDENT** — Extra-large

flowers of glowing scarlet.

Disease-free, blue-green foliage. The finest red canna

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1500 **CITY OF PORTLAND** —

Large clusters of bright

rose-pink blooms. Green

foliage. Grows 4 ft.

1500 **RICHARD WALLACE** —

Large canary-yellow flow-

ers 4 to 5 ins. in diameter.

Green foliage. Grows 3 to

4 ft. high.

3000 **AMBASSADOR** — Free

blooming, cherry-red with

bronzefoliage, 4 to 5 ft.

1000 **WYOMING GOLD** — Magni-

ficient large orange-colored

flowers. Bronze foliage.

True orchid-flowering variety.

Grows 4 ft.

6000 **PRESIDENT CANNA LIN-**

ERS — 1 to 2-eye divi-

sions. \$4.00 per 100; \$35.00

per 1000.

Management Tips Given At Massachusetts Course

By Herbert Fordham

"Nursery Management and Its Problems" was the topic of discussion at the sixth annual short course for nurserymen held at the University of Massachusetts, Waltham field station, Waltham, Mass., on February 23 and 24. This trade program was conducted by the Massachusetts Nurserymen's Association with the co-operation of the Waltham field station.

Harold D. Stevenson, Harold D. Stevenson Landscape Service, Marshfield, Mass., chairman of the M. N. A. educational committee and well known among New England nurserymen, welcomed a group of 150 to the meeting. He then introduced Stephen G. Burke, evening division, Northeastern University, who spoke on the subject of "Human Relations."

What the Boss Expects

A boss, Mr. Burke said, expects from his employees (1) loyalty, (2) an expression of genuine interest in the enterprise, (3) a willingness to work after closing time, (4) a capacity for adjusting one's personality to those of his boss and business associates, (5) an attempt to find the best possible way to do any job and to instruct others properly in the use of that method and (6) a progressive attitude seeking the success of the business as the only real guarantee of job security.

In discussing what the employee expects from his boss, Mr. Burke expressed deep concern over the fact that in many organizations today, employees who seek advancement no longer go directly to the employer but turn toward the unions for assistance.

He suggested that every employer should provide for the physical needs of the employee, including fresh air, food, drink and sleep. The employee's emotional needs should not be overlooked. He should be given recognition, a sense of belonging, an opportunity to progress, relief from domination and respect for his personal dignity.

After lunch, Richard Guild, executive director of the Massachusetts Nurserymen's Association, discussed employee cost. From the employer's point of view, Mr. Guild said, it is

important to know the total employee cost in order to charge the customer for his services. As a general rule a charge of about three times the employee's hourly wage is adequate.

Hidden Factors

Citing such non-wage benefits as paid holidays, sick time, coffee breaks, etc., Mr. Guild demonstrated that the total cost of an employee is considerably more than just the hourly rate he is being paid.

Joseph A. Dunn, financial officer, Rockland Trust Co., Rockland, Mass., suggested various methods by which the nurseryman might finance


sales, purchases and general operations. With retail customers, collection immediately after a sale was advised whenever possible.

Homeowners' loans may be arranged to finance installation of plantings, grading and permanent underground sprinklers. With FHA, Mr. Dunn pointed out, such loans are paid directly to the nurseryman rather than to the customer.

The recent trend has been toward unsecured borrowing, such as discounted customer notes, unsecured notes and conditional sales contracts. In some instances, short-term borrowing with 30 to 60-day notes has been found more practical.

Seth Kelsey Jr., Kelsey-Highlands Nursery, East Boxford, Mass., concluded the afternoon session with a report on the A. A. N. advanced management course held at the Syracuse University conference center.

The Friday morning program was devoted to a discussion of business




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12 to 15 ins.	2.50
15 to 18 ins.	3.25
Taxus capitata	
2 to 2½ ft.	5.50

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... it's planting time, and again Klyn roses will fill the holes reserved by thousands of discriminating gardeners who want the finest. Why not fill your pockets with the added profits that only dependable northern-grown roses can assure! Select your favorites from over 140 varieties of tea roses, floribundas, and climbers, including almost 100 patent varieties. No. 1 and 1½ ... generously graded, still available!



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Color pictures and banners to help speed sales!



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Blackburn 5-3471

Beautiful "Living Color" Advertisements
in leading garden magazines . . .
will boost STAR
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The cute little girl watering the Star Miniature Roses is going to bring Star Miniature Roses to the attention of nearly 3 million gardeners in leading garden magazines this season.

These advertisements will tell them when, why and where to plant miniature roses. It will also tell them that miniature roses are real roses; that the grain-of-wheat-size buds open to nickel-size blooms—so cute, different and beautiful! They are extremely hardy and everblooming, too.

Be sure to have a good supply of them in stock . . . your customers will be coming in and asking for them.



Brand New!

Star PIXIE GOLD (Pl. Pat. App. for)

Fine bright yellow bud opens to a soft yellow. Grows to about 12".



Star PIXIE ROSE (Pl. Pat. App. for)

Finest deep pink. Free flowering double blooms. Fragrant, too. A compact plant of 10".

ALL NEW SPECIAL OFFER

COLLECTION A1 (50 plants)

25 Pixie Gold
25 Pixie Rose

\$4250 for one collection

\$3950 ea. for 3 or more collections

FAVORITE FOUR The STAR Special

COLLECTION A2 (100 plants)

50 Red Imp—rich unfading red
20 Bo-Peep—soft pink
15 Baby Gold Star—golden yellow

15 Cinderella—cream white

\$6750 for one collection

\$6250 ea. for 3 or more collections

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See the February 1 issue for complete list.

ISAAC LANGLEY WILLIAMS
Box AN Exeter, N. H.

guideposts and danger signals, with Howard E. Hansen, of Peat, Marwick, Mitchell & Co., accountants, Boston, Mass., speaking on "Setting Up and Maintaining Proper Records."

He urged that some sort of discipline be introduced in maintaining records. At the same time, book-keeping should be kept simple. Suggested also were the running of a monthly trial balance and, if possible, the closing of books twice a year, with financial statements made about January and July.

Due to the heavy work load in the nursery industry during June and July, many nurserymen questioned the practicality of running inventory at that time of year in order to prepare a financial statement.

During this discussion, Seth Kelsey, Jr., brought out the importance of breaking down the business operations into various departments in order to know where profit is being made.

Orville F. Westover, comptroller, Faulkner hospital, Boston, continued the morning session by emphasizing a planned financial program and its control. A budget, he stated, goes hand in hand with the monthly statement and provides all the facts today rather than a year from today.

Budget Benefits

Mr. Westover clearly showed three major benefits derived from budgetary control: 1. It is a method of measurement indicating how far out of line certain expenses may be. 2. Involving advanced planning, it forces one to make decisions before it is too late. 3. It is an aid in achieving a goal and helps one decide whether or not to go ahead.

After a catered lunch, Bert Harmon, of the Massachusetts safety council, brought out in his address that worry over a possible accident can drastically reduce an employee's efficiency.

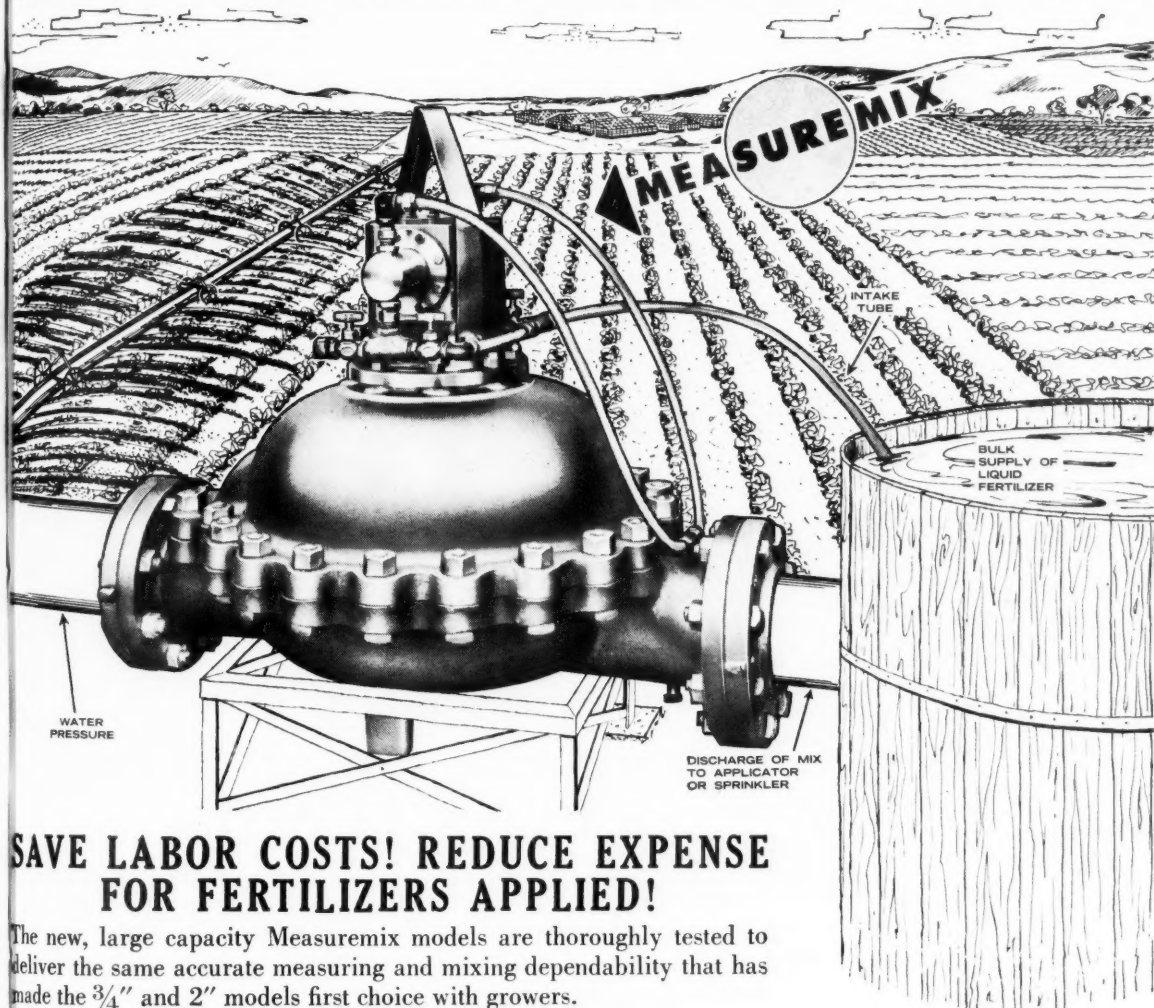
Employee moral is greatly improved when management shows a real interest in workers' safety. Mr. Harmon suggested, however, that employees should be informed of the costs involved in providing safer working conditions for them. "Don't rely on slogans," he said. "Give them facts."

The short course program was concluded with a presentation by R. Louis Towne, executive director, Plumbing and Heating Wholesalers of New England, Wellesley, Mass., entitled "The Human Side of Selling."

Mr. Towne strongly disapproved of price-cutters, saying that price is

NOW! LARGER MEASUREMIX MODELS

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SAVE LABOR COSTS! REDUCE EXPENSE FOR FERTILIZERS APPLIED!

The new, large capacity Measuremix models are thoroughly tested to deliver the same accurate measuring and mixing dependability that has made the 3/4" and 2" models first choice with growers.

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7. Measuremix actually pays for itself in a few months through reduction in labor cost, savings on fertilizer purchased, and better plant growth.

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Model R-8 for 2" pipe

Model R-12 for 3" pipe

Model R-16 for 4" pipe

Model R-24 for 6" pipe

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	10	100		10	100
Acer palmatum atropurpureum Bloodgood	\$7.50	\$65.00	Juniperus chinensis Ames	\$6.50	\$55.00
Acer palmatum atropurpureum Oshiu-Beni	7.50	65.00	Juniperus chinensis blauwi	6.50	55.00
Acer palmatum dissectum	7.50	65.00	Juniperus chinensis columnaris glauca	6.50	55.00
Acer palmatum dissectum atropurpureum	7.50	65.00	Juniperus chinensis columnaris viridis	6.50	55.00
Acer platanoides columnare	7.50	65.00	Juniperus chinensis Iowa	6.50	55.00
Acer platanoides Faassen's Black	7.50	65.00	Juniperus chinensis keteleeri	6.50	55.00
Acer rubrum columnare	8.50	75.00	Juniperus chinensis Maney	6.50	55.00
Acer saccharum monumentale	8.50	75.00	Juniperus chinensis Mountbatten	6.50	55.00
Cedrus atlantica glauca	8.50	75.00	Juniperus chinensis sargentii	6.50	55.00
Chamaecyparis obtusa compacta	6.00	50.00	Juniperus chinensis sargentii glauca	6.50	55.00
Chamaecyparis obtusa compacta nana	6.00	50.00	Juniperus scopulorum Blue Haven	6.50	55.00
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Cornus florida alba plena	6.50	55.00	Juniperus virginiana burki	6.50	55.00
Cornus florida pendula	7.50	65.00	Juniperus virginiana canaerti	6.50	55.00
Cornus florida rubra	6.50	55.00	Juniperus virginiana elegantissima	6.50	55.00
Cornus florida rubra Prosser (Red-Flowering Dogwood)	6.50	55.00	Juniperus virginiana glauca	6.50	55.00
Cornus kousa chinensis	6.50	55.00	Juniperus virginiana globosa	6.50	55.00
Fagus sylvatica asplenifolia	6.50	55.00	Juniperus virginiana pyramidiformis hillii	6.50	55.00
Fagus sylvatica festigiata	7.50	65.00	Juniperus virginiana schottii	6.50	55.00
Fagus sylvatica heterophylla	6.50	55.00	Magnolia stellata Water Lily	7.50	65.00
Fagus sylvatica pendula	6.50	55.00	Parrotia persica	6.50	55.00
Fagus sylvatica riversi	6.50	55.00	**Pinus cembra	7.00	60.00
Hamamelis mollis	6.50	55.00	Thuja orientalis aurea nana	5.50	45.00
Ilex aquipernyi (female)	7.50	65.00	Thuja orientalis conspicua	5.50	45.00
Ilex aquipernyi (male)	7.50	65.00	Thuja orientalis elegantissima	5.50	45.00
Ilex opaca femina Hook-straw—Judge Brown—Miss Helen	7.50	65.00	Tsuga canadensis pendula	7.50	65.00
Ilex opaca mascula	7.50	65.00			

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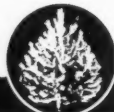
	Each		Each
Abies nobilis glauca	\$1.00	Pinus bungeana	\$0.80
Abies nordmanniana	.85	**Pinus parviflora glauca	1.00
Cornus florida welchi	1.00	**Pinus strobus fastigiata	.80
Fagus sylvatica purpurea pendula	1.00	**Pinus strobus nana	.80
Fagus sylvatica Tricolor	1.00	**Pinus strobus pendula	.80
Magnolia sieboldi parviflora	.85	Sophora japonica pendula	.75

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MUGHO PINE			WHITE SPRUCE		
3-yr., S., 5 to 10 ins.	\$4.50	\$30.00	4-yr., S., 12 to 15 ins., root-pruned	\$7.00	\$45.00
CONCOLOR WHITE FIR			6-yr., T., 12 to 15 ins.	10.00	75.00
4-yr., S., 12 to 15 ins., root-pruned	10.00	55.00	4-yr., T., 9 to 12 ins.	9.00	60.00
BALSAM FIR, deep green			COLORADO BLUE SPRUCE		
6-yr., T., 10 to 14 ins.	15.00		4-yr., S., 10 to 14 ins., root-pruned	10.00	60.00
DOUGLAS FIR			4-yr., T., 5 to 10 ins.	12.50	80.00
3-yr., T., 4 to 7 ins.	10.00	60.00	BLACK HILLS SPRUCE		
SIEBOLDI HEMLOCK			4-yr., S., 10 to 14 ins., root-pruned	6.00	35.00
3-yr., S., 8 to 12 ins.	7.00	40.00	5-yr., T., 8 to 11 ins.	10.00	75.00
NORWAY SPRUCE			AMERICAN ARBORVITAE		
4-yr., S., 12 to 16 ins., root-pruned	7.00	45.00	3-yr., S., 9 to 14 ins.	7.00	35.00
6-yr., T., 12 to 18 ins.	10.00	75.00			
4-yr., T., 7 to 12 ins.	9.00	60.00			

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an idea which can be sold only if it is backed up by quality. When selling, one should always give the buyer a choice between something and something else, never between something and nothing. Too many sales are lost because an alternative item is not offered to the customer who seeks a specific article, which may not be available.

It was announced at the conclusion of the meeting that next year's short course will probably lead off a new series of educational programs covering cultural phases of the nursery business.

NEW FROM MINNESOTA

Wayzata, a new yellow garden chrysanthemum, and two new apricot varieties, Moongold and Sungold, are the latest of the ornamental and fruit varieties to be developed and introduced by the University of Minnesota, St. Paul. The university's recent announcement describes the introductions as follows:

Wayzata is a double yellow garden chrysanthemum with bronze-tinged buds that open to 3-inch blossoms. Their fairly long stems make them good for cut flower purposes as well as garden display. On the University of Minnesota's St. Paul campus, where Wayzata was developed, the plants normally bloom by the latter half of August. Plants are vigorous, with clean green foliage. They reach a height of two feet and a spread of three feet. They are prolific bloomers.

Moongold and Sungold were developed by horticulturists of the University of Minnesota agricultural experiment station to meet the need for varieties that are winter hardy and are adapted to the moisture conditions prevailing east of the Great Plains. The two varieties—about the size of plum trees—should be planted together to provide satisfactory pollination. Trees are vigorous and productive, and the fruit hangs well on the trees.

Moongold, the earlier of the two varieties, is light orange, sometimes blushed or dotted with carmine. The fruit is up to one and three-quarters inches wide and one and one-half inches long—slightly broader than it is long. The flavor is sweet, with a slight acidity. The quality is good for eating and for sauce and excellent for jam.

Sungold is a bright, clean gold with an orange blush. The fruit is slightly longer than broad—up to one and five-sixteenths inches long and somewhat compressed on the sides. The firm freestone flesh is a



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One man with the easily portable MISTBLOWER "SOLO" replaces a pump truck, hoses—can easily get into areas with poor access roads and over rugged and rocky terrain.

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AND YOU SAVE . . . Less chemicals needed—No need for truck pumps and tons of water—No long, costly hoses—Labor is at a minimum.

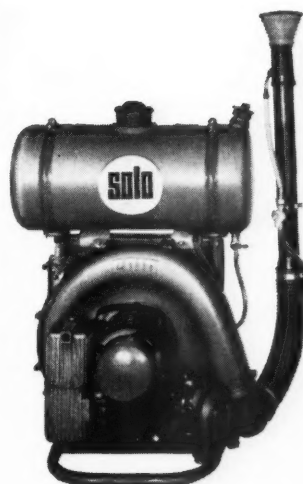
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**Quality Seedlings
and Transplants
for Your Big Spring
Planting Plans**



SCOTCH PINE

(*Pinus sylvestris*)

	Per 100	Per 1000
(2-0), 2-yr., S., 2 to 3 ins....	\$ 7.50	
(2-0), 2-yr., S., 4 to 6 ins....	2.50	15.00
(3-0), 3-yr., S., 7 to 14 ins....	3.75	25.00
(2-2), 4-yr., T., 8 to 15 ins....	6.75	45.00

WHITE PINE

(*Pinus strobus*)

	Per 100	Per 1000
(2-0), 2-yr., S., 3 to 5 ins....	3.00	20.00
(3-0), 3-yr., S., 5 to 12 ins....	4.50	30.00
(4-0), 4-yr., S., 8 to 16 ins....	6.00	40.00
(2-2), 4-yr., T., 6 to 14 ins....	8.25	55.00

COLORADO BLUE SPRUCE

(*Picea pungens*)

	Per 100	Per 1000
(2-0), 2-yr., S., 4 to 6 ins....	3.75	25.00
(3-0), 3-yr., S., 5 to 12 ins....	6.00	40.00
(4-0), 4-yr., S., 8 to 15 ins....	8.25	55.00
(2-2), 4-yr., T., 5 to 10 ins....	12.00	80.00
(2-3), 5-yr., T., 8 to 15 ins....	17.50	125.00

NORWAY SPRUCE

(*Picea abies*)

	Per 100	Per 1000
(2-0), 2-yr., S., 4 to 8 ins....	\$ 3.00	\$ 20.00
(3-0), 3-yr., S., 6 to 14 ins....	4.50	30.00
(4-0), 4-yr., S., 10 to 15 ins....	6.75	45.00
(2-2), 4-yr., T., 8 to 15 ins....	9.00	60.00
(2-3), 5-yr., T., 12 to 20 ins....	12.00	80.00

DOUGLAS FIR

(*Pseudotsuga taxifolia*)

	Per 100	Per 1000
(2-0), 2-yr., S., 4 to 7 ins....	3.75	25.00
(3-0), 3-yr., S., 5 to 12 ins....	6.00	40.00
(4-0), 4-yr., S., 8 to 14 ins....	7.50	50.00
(2-2), 4-yr., T., 5 to 10 ins....	9.75	65.00

BALSAM FIR

(*Abies balsamea*)

	Per 100	Per 1000
(2-3), 5-yr., T., 5 to 12 ins....	15.00	90.00
(2-3-2) 7-yr., T., 10 to 18 ins....	18.00	120.00

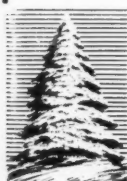
CANADIAN HEMLOCK

(*Tsuga canadensis*)

	Per 100	Per 1000
(2-2), 4-yr., T., 5 to 12 ins....	15.00	90.00

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PACHYSANDRA TERMINALIS

	Per 100	Per 1000
1-yr., field-grown	\$ 5.00	\$ 45.00
Lots of 3000		42.50
2 1/4-in. pot-grown, 2 to 3 plants per pot	12.00	105.00

VINCA MINOR BOWLES VARIETY

	Per 100	Per 1000
2 1/4-in. pot-grown	16.50	150.00
Lots of 3000		145.00

Hedera helix, 2 1/4-in. pot-grown	12.50	115.00
Hedera helix baltica, 2 1/4-in. pot-grown	13.00	120.00
Hedera helix gracilis, 2 1/4-in. pot-grown	13.00	120.00
Euonymus fortunei radicans, 2-yr., field-grown	25.00

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clear orange. It is tender, with practically no fiber. The mild, sweet flavor makes Sungold a good apricot for eating, excellent for jam and fair to good for sauce.

Wayzata, Moongold and Sungold will be available from nurseries and garden centers in Minnesota and adjoining states in the spring of 1961.

NEW DWARF ARBORVITAE

A new arborvitae which needs little pruning is announced by the Oklahoma agricultural experiment station, which has released it under the varietal name, Dwarf Greenspike.

Foliage of Dwarf Greenspike is juniperlike in appearance, but is soft to the touch. The plant somewhat resembles spiny Greek juniper in form, but is more dwarf. The foliage is a bright green and of fine texture.

Stock of Dwarf Greenspike is currently available to nurserymen through Oklahoma Foundation Seed Stocks, Inc. This is an organization entirely controlled by Oklahoma State University as a means of making equitably available the new varieties developed by experiment station research.

Dwarf Greenspike was developed by Dr. Robert P. Ealy, of the O. S. U. horticulture staff, from a mutant branch he found in 1940 on a common arborvitae on the university campus.

Scions were grafted upon seedling arborvitae rootstocks, and later cuttings were rooted in the university greenhouse and transplanted outdoors. Some of these first plants have now been under observation for 11 years.

In a large nursery planting of Dwarf Greenspike, plants now 8 years old have never been pruned, but most of them have developed a compact, natural form, averaging about three and one-half feet tall.

The new variety has been much less susceptible than spiny Greek juniper to damage by blight and red spider.

Plants have been successfully propagated by both grafting and cuttings. They can be grafted on seedling arborvitae rootstocks.

HARRY LOGAN, Harry Logan, Nurseryman, Westport, Conn., and his wife will leave in April for a 3 to 4-week trip to the British Isles, where Mr. Logan plans to attend the rock garden plant conference at London and Edinburgh.



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so colorful
so durable
so beautiful*

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homes, indoors and out,
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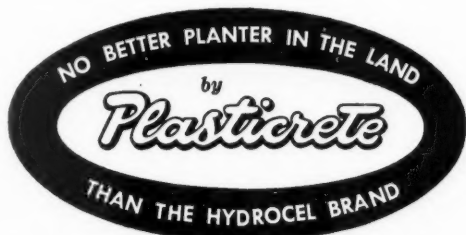
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Features	Colors	Size & Weight	Prices		Mark Up	Carton Put Up*
<i>Does what no other planter can do.</i>			Your Cost	You Sell		
Made of a scientific blending of perlite, asbestos and cement. Holds moisture twice as long. Protects roots from shock. Contains millions of tiny airless cells to provide outstanding insulation. Has nearly the strength of concrete, yet is light as a feather by comparison. Ideal indoors or out for house plants, shrubs, trees. Free full-color literature. Write today.	Shell White	10" x 10" Approx. 7 lbs.	3.00	4.95	40%	Nest Carton—Four pieces, one piece each size— Weight 50 lbs.
	Desert Tan	12" x 12" Approx. 9 lbs.	3.60	5.95	40%	10" Carton—Four pieces, Weight 25 lbs.
	Desert Rose					12" Carton—Four pieces, Weight 36 lbs.
	Charcoal	14" x 14" Approx. 13 lbs.	5.40	8.95	40%	14" Carton—Two pieces, Weight 25 lbs.
	Rainbow Green	16" x 16" Approx. 18 lbs.	6.60	10.95	40%	16" Carton—Two pieces, Weight 36 lbs.
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	Per 1000
Douglas Fir, 4-yr. transplants (2-2), 6 to 12 in.	\$ 70.00
Douglas Fir, 3-yr. transplants (2-1), 3 to 6 in.	65.00
Scotch Pine (Austrian Hill) 3-yr. transplants (2-1), 4 to 10 in.	60.00
Scotch Pine (Spanish), 3-yr. transplants (2-1), 4 to 10 in.	60.00
White Pine, 4-yr. transplants (2-2), 6 to 10 in.	75.00
Colorado Blue Spruce, 5-yr. transplants (2-3), 8 to 15 in.	140.00
Norway Spruce, 5-yr. transplants (2-3), 8 to 15 in.	80.00
Norway Spruce, 4-yr. transplants (2-2), 6 to 12 in.	70.00
White Spruce, 4-yr. transplants (2-2), 5 to 10 in.	70.00

SEEDLINGS (Not Guaranteed)

Douglas Fir, 3-yr. seedlings (3-0), 3 to 6 in.	25.00
Fraser Fir, 3-yr. seedlings (3-0), 3 to 6 in.	30.00
Japanese Black Pine, 3-yr. seedlings (3-0), 5 to 10 in.	30.00
Norway Red Pine, 3-yr. seedlings (3-0), 4 to 8 in.	25.00
Scotch Pine (North German), 3-yr. seedlings (3-0), 8 to 12 in.	20.00
White Pine, 3-yr. seedlings (3-0), 5 to 10 in.	30.00
Colorado Blue Spruce, 3-yr. seedlings (3-0), 5 to 10 in.	40.00
Norway Spruce, 3-yr. seedlings (3-0), 3 to 5 in.	25.00
European Larch, 3-yr. seedlings (3-0), 6 to 10 in.	25.00

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90 PER CENT OF ALL TRANSPLANTS SOLD at regular wholesale prices as quoted in this list are guaranteed to live. Replacements will be made free of charge for any losses in excess of 10 per cent of the number purchased, provided we are notified of such losses by October 1, 1961. (Seedlings not guaranteed.)

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No. 1	\$0.60	\$0.58	\$0.56	\$0.55	\$0.54
No. 1½50	.48	.46	.45	.44

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also B&B Evergreens

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OBITUARY

Dr. Ernest Haber

Dr. Ernest Haber, 65, head of the horticulture department of Iowa State University, Ames, died March 11 of a heart attack. He was named to head the department in 1947, after being with the school since 1920, and was due to retire in June of this year.

Dr. Haber was the co-author, with Dr. John P. Mahlstedt, associate professor of horticulture at the university, of "Plant Propagation," a text published in 1957. Dr. Haber was also president of the Sweet Corn Breeders Association of America.

W. H. Hibner

W. H. Hibner, owner of the Tupelo Landscape Co., Tupelo, Miss., died February 12 in a local hospital at the age of 68. Mr. Hibner was a native of Missouri and had lived several years at Memphis, Tenn., before moving to Tupelo. Survivors include his widow, a son and four daughters.

PLAN NEW PLANT LAB

Plans to construct a new \$250,000 laboratory for research in plant physiology were announced recently by the New York state college of agriculture, Cornell University, Ithaca, N. Y. The new laboratory, an addition to the college's present Plant Science building, will be designed specifically for research on plant nutrition and metabolism in relation to growth and development.

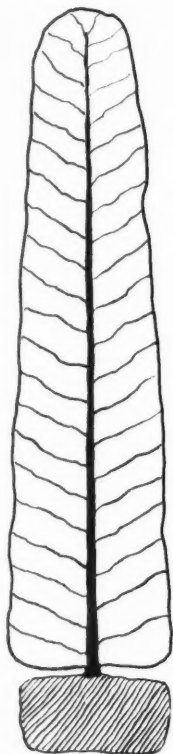
USES TRADING STAMPS

Wyman's Garden Center, Framingham, Mass., is believed to be the first garden shop in the United States to participate in a trading stamp plan.

Richard M. Wyman, Jr., announced that his firm began distributing S. & H. green stamps February 19, with triple stamps given on all landscape purchases made during February.

PURCHASE of the entire stock, greenhouses and equipment of Exotic Tropical Plants Co., Clearwater, Fla., was made by Green Jean Nursery, Inc., also of Clearwater. John B. Somers, owner of Exotic Tropical Plants, was appointed general manager of the Green Jean operations by the owner, Robert W. Wilson, a Clearwater attorney.

TAXUS TOPIARIES

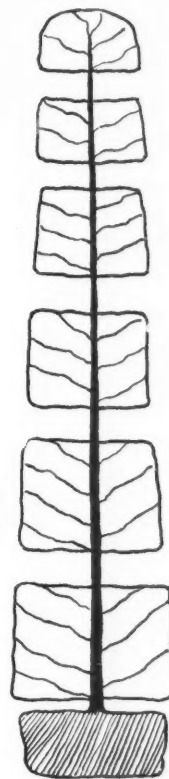


◀ **One leader-trained columnaris** and topiary specimen of **Hicks' and Dwarf Brevifolia Yews**, 21 years old, six times transplanted, fiber roots only, never winter burned and withstood 30 degrees below zero at our nursery in open fields. Excellent for pent-house and terrace garden tubs and planter beds. **Prices of columnaris:**

4 to 5 ft., **\$22.00** each; 5 to 6 ft., **\$35.00** each;
6 to 7 ft., **\$45.00** each; 7 to 9 ft., **\$65.00** each.

Prices of topiaries such as illustrated on the right: ▶

5 to 6 ft., **\$150.00** each; 6 to 7 ft., **\$200.00** ea.;
7 to 8 ft., **\$275.00** each; spirals, 7 to 10 ft.,
\$375.00 each.



ATTENTION: CONTRACTORS AND ARCHITECTS for the 1964 New York World's Fair: We will cut topiaries to your specifications. Attractive discounts on orders of 5000 plants or more. Advance notice, please! Flat price on topiaries for orders of 10,000 or more!

BUSHY-TYPE LANDSCAPE TAXUS

Hicks', Kelsey and Vermeulen, 3½ to 4 ft., 15-yr., **\$13.00** each

Hicks', Kelsey, Dwarf Brevifolia, 3 to 3½ ft., 12-yr., **\$8.50** each

Hicks' 2½ to 3 ft., 9-yr., **\$3.85** each

Dwarf Brevifolia, 2½x2½ ft., **\$4.50** each

Vermeulen, 2 ft., 10-yr., **\$3.65** each

SPECIAL

Capitata Seedlings

6 to 12 ins., XX, **\$35.00** per 100

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THIS BUSINESS OF OURS

Reflections on the Problems of Nurserymen

By E. Sam Hemming

WINTER DAMAGES

The winter just past was one of the severest the eastern part of the country has felt. I have heard it compared with the one experienced in 1933-34. In physical discomfort and inconvenience, this may be true, but in comparison with the damage to plants it is not so. The earlier winter was extremely damaging to plants because the worst part of the extended cold period came with little snow on the ground and was accompanied by a dry northwest wind. This winter, the cold period was about as long, although earlier, and the low temperature was comparable, but there was a great deal of snow and the humidity stayed higher.

The past winter has done considerable damage, and I shall discuss the varying injuries on my nursery and on private grounds and also the damage to plants reported to me by other nurserymen.

Of course, after four fairly severe winters in a row, nurserymen tend to become a bit philosophical, as well as to shy away from the plants that are too tender. Also it is not hard to see that, with a few exceptions, after six months' growth all evidence will be gone. As in all plant experiences, the injury varied, and some things were uninjured which were hurt in less severe winters.

Extensive Foliage Burn

The damage seems to be most noticeable in burn of foliage. In the winter of 27 years ago, there was a great deal of wood damage. This year the tree boxwood seems to be the only plant with bark splitting, although I have seen a few English boxwood in customers' gardens similarly damaged. These plants usually had snow and even ice banked in them.

Wax privet shows damage; foliage is quite brown in most plants in the nursery, although some little potted liners put in the field last August lost only about three inches and will probably benefit from the cutback. This plant is a peculiar one, in that in the nursery it usually shows some winter injury but recovers quickly; when planted around homes, it rarely is hurt and causes little customer dissatisfaction.

Foliage burn on cherry laurel and Magnolia grandiflora is extensive, with wood injury on the former. While the foliage is poor on the abelias, there is no bark splitting, which often occurs in less severe winters. In one block I had several rows each of Cryptomeria japonica and Cryptomeria lobbi in about 12 to 18-inch size. The former is rather severely hurt, while the latter is completely free of any injury. Larger Cryptomeria japonica shows no injury.

Cedar Injury Erratic

Of the two cedars, Cedrus libani shows more needle burn than Cedrus deodara in all sizes, yet it is supposed to be hardier. Cedrus atlantica glauca shows no injury at all. Osmanthus illicifolius is generally quite hardy, but the foliage on the older growth burned, while later-made shoots did not. The variety rotundi-

folia showed burn, too; the tender variety delavayi was not hurt so badly as was expected.

Among the evergreen barberries, julianae suffered the worst; sargentiana showed some injury while veruculosa showed no damage at all.

Holly Injury Varies

Hollies showed varying injury, with Ilex opaca undamaged except for Hume. Among the English, I. aquifolia alcornus was uninjured while Wilson showed injury. The Japanese hollies came through fine, but other nurserymen have reported injury to their plants. The Chinese and its variety Burford showed varying injury while the Nellie R. Stevens continues to demonstrate its toughness. A customer who has a large Burford holly on the north side of her house said that this year it looks beautiful while last winter every leaf was burned brown.

Crape myrtle on private grounds came through the winter fine, while young plants in the nursery were killed back to about six inches. This plant seems to be more sensitive to dry cold, for in the earlier cold winter the roots were killed.

Other nurserymen report that many yews showed damage but the

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This is an origination of the late Mike Sebian's nursery, Painesville, Ohio. It has proved hardy and has a fast rate of growth. We feel this variety is one of the best for the mid-western states.

	Per 100	Per 1000
2-yr., T.	30c	27 1/2c
3-yr., T.	40c	37 1/2c

Write for price of 5000 and 10,000 quantity.

Samples sent upon receipt of postage.

VERKADE'S NURSERIES

P. O. Box 336

New London, Conn.

CANADIAN HEMLOCK BALSAM FIR

	Per 100	Per 1000
2 to 4 ins., S.	\$ 2.00	\$ 10.00
3 to 6 ins., S.	3.00	17.00
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.00	100.00

Well-rooted, carefully collected seedlings. Puddled and packed in sphagnum moss. Cash with order.
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CHLOROBENZILATE Miticide

Controls two-spotted mite on roses; spruce mite on spruce, arbor vitae, hemlock; two spotted mite on taxus, azalea; Southern red mite on holly; clover mite on turf and shrubbery. Safe, effective, long residual, economical. Non-irritating to skin.

DIAZINON Insecticide

Residual phosphate insecticide. Controls bagworms on arbor vitae and juniper; privet mites on azalea, aralia and ivy; aphids and bud mites on carnations; aphids and bud moths on holly; chinch bugs, chiggers, lawn moths and fleas in turf.

SIMAZINE Pre-emergence Herbicide

For safe, economical weed control in many species of ornamentals and nursery stock. Follow label directions. One application prior to weed emergence controls most annual broadleaf weeds and grasses. Saves weeding costs in nurseries.

Follow label instructions



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		Per 100	Per 1000			Per 100	Per 1000
ARBORVITAE				ILEX			
Americana				Rotundifolia			
3-yr., 10 to 15 ins.		\$19.00	\$175.00	1-yr., 3 to 6 ins.		\$18.00	\$160.00
Elegantissima				2-yr., 4 to 8 ins.		22.50	200.00
Globosa				3-yr., 6 to 10 ins.		27.50	250.00
2-yr., 6 to 8 ins.		24.00	200.00	TAXUS			
3-yr., 8 to 12 ins.		27.50	250.00	Capitata			
Ellwangeriana Tom Thumb				1-yr., 4 to 6 ins.		22.00	200.00
3-yr., 8 to 12 ins.		27.50	....	2-yr., 6 to 8 ins.		30.00	275.00
RETINOSPORA—CHAMAECYPARIS				3-yr., 8 to 12 ins.		37.50	350.00
Filifera aurea (Gold Thread)				Cuspidata—Special			
2-yr., 6 to 8 ins.		25.00	225.00	1-yr., 4 to 6 ins.		16.00	150.00
3-yr., 8 to 10 ins.		30.00	275.00	2-yr., 6 to 8 ins.		20.00	175.00
Filifera (Green Thread)				3-yr., 8 to 10 ins.		25.00	225.00
4-yr., 8 to 10 ins.		20.00	175.00	4-yr., 10 to 15 ins.		30.00	275.00
Obtusa crippsal				Media browni			
2-yr., 6 to 8 ins.		25.00	225.00	1-yr., 4 to 6 ins.		20.00	175.00
3-yr., 6 to 10 ins.		30.00	275.00	2-yr., 6 to 8 ins.		25.00	225.00
Obtusa (Hinoki)				3-yr., 8 to 10 ins.		32.50	300.00
2-yr., 4 to 6 ins.		35.00	....	4-yr., 8 to 12 ins.		37.50	350.00
3-yr., 4 to 6 ins.		45.00	....	Media hatfieldi, upright			
JUNIPER				1-yr., 4 to 6 ins.		20.00	175.00
Chinensis, Pützer				2-yr., 4 to 6 ins.		25.00	225.00
2-yr., 4 to 8 ins.		24.00	200.00	3-yr., 6 to 10 ins.		32.50	300.00
3-yr., 8 to 10 ins.		27.50	250.00	4-yr., 8 to 10 ins.		37.50	350.00
Glauca hetzi				Media hicksi			
2-yr., 6 to 10 ins.		25.00	225.00	1-yr., 4 to 6 ins.		20.00	150.00
3-yr., 8 to 12 ins.		30.00	275.00	2-yr., 6 to 8 ins.		25.00	225.00
Horizontalis plumosa				2-yr., 8 to 10 ins.		32.50	275.00
2-yr., 6 to 8 ins.		24.00	200.00	4-yr., 8 to 12 ins.		37.50	350.00
3-yr., 6 to 10 ins.		27.50	250.00	TSUGA (Hemlock)			
Japonica				Canadian			
2-yr., 4 to 6 ins.		25.00	225.00	4-yr., 8 to 10 ins., T.		25.00	200.00
RATE—Under 200 at 100 rate; 200 or over at 1000 rate.				4-yr., 10 to 15 ins., T.		30.00	275.00
TERMS—Orders can be booked with ¼ cash, balance before shipping date or C.O.D. Cash with order earns 2% discount; boxing and packing free.				5-yr., 12 to 18 ins., T.		35.00	325.00
Government-inspected stock; no Japanese beetles.				SPECIAL DISCOUNTS ON LARGE QUANTITIES			
				Write for complete list.			

KING WHOLESALE NURSERY
Growers of Quality Evergreen Liners and Finished Stock
Phone: Temple 4-8930
4 miles south on Rt. 180.

R. D. No. 5

Greensburg, Pa.

only one of my firm showing any burn was the Irish, which is supposed to be tender, but the burn is minor.

One of the more surprising injuries was an unusual amount of burn on Mahonia beali, which generally is pretty tough except in regard to sun. Aucuba japonica showed much less injury than last year.

My firm is not extensive growers of azaleas and of those grown there is no injury, but I have heard from nurserymen who specialize in them that damage to their azaleas was considerable.

There were perhaps 40,000 to 50,000 potted liners, mostly broad-leaved evergreens in frames under slat shades, which spent most of the winter under snow and came through perfectly well, much better than in milder but less snowy winters. Because the last several winters have been discouraging, we had few camellias; what we had in the open were injured. English boxwood in the nursery showed foliage burn, but not seriously.

Although winters such as these are uncomfortable and inconvenient, I really do not think that, even if they continue, there will be any considerable change in the nature of the plants grown in the trade.

TAXUS

		Each Per 100	Each Per 1000			Each Per 100	Each Per 1000
T. wardi				T. hicksi			
12 to 16 ins.		\$2.25	\$2.00	12 to 16 ins.		\$2.25	\$2.00
10 to 12 ins.		1.50	....	10 to 12 ins.		1.50	....
T. hatfieldi				T. henryi (The originator's true strain)			
12 to 16 ins.		2.25	2.00	12 to 16 ins.		2.25	2.00
10 to 12 ins.		1.50	....	10 to 12 ins.		1.50	....
T. browni				T. densiformis			
12 to 16 ins.		2.25	2.00	12 to 16 ins.		2.25	....
T. capitata				10 to 12 ins.		1.50	....
2 to 3 ft.		4.75	....	Your visit to the nursery would be most welcome. New Jersey Turnpike Exit No. 9 to New Brunswick and Easton Ave.			
12 to 15 ins.		1.75	....			

BELL ACRE NURSERIES

P. O. Box 597, Easton Ave. Phone: EL 6-0980 South Bound Brook, N. J.

PINE GROVE NURSERY

R. D. No. 3 Clearfield, Pa.

		Per 100	Per 1000
Colorado Blue Spruce			
3-yr., S., 5 to 8 ins.		\$ 4.50	\$ 35.00
(3-2), T., 7 to 10 ins.		10.00	75.00
Concolor Fir			
3-yr., S., 7 to 10 ins.		5.00	40.00
Canadian Hemlock			
2-yr., T., 10 to 14 ins.		16.00	125.00
Many other varieties. Write for complete list.			

For Quality Stock— RICKERT NURSERIES

Successor to Moon's
Established 1767
MORRISVILLE, PA.

COLLECTED STOCK

Clump Birch (Betula populifolia)		
6 to 8 ft.		\$4.00
8 to 10 ft.		5.00
10 to 12 ft.		6.50
Red Maple (Acer rubrum)		
1½ to 2-in. cal.		4.50
2 to 2½-in. cal.		6.00
Colorado Spruce, field-grown		
18 to 24 ins.		2.25
24 to 30 ins.		2.75

F.O.B. White Haven

BARRY'S EVERGREEN NURSERY
White Haven, Pa.

SPRUCE

300 Colorado Spruce, 4 to 15 ft.
100 Koster Blue Spruce, 10 to 18 ft.

BURMAK NURSERY
95 Hillside Ave.
Van Cortlandville, Peekskill, N. Y.
Phone: Peck 7-4060

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the SPESHULS Ozark
got fer ye...**

• APRIL SPECIALS •

APPLES	All varieties 1-in. cal. and up—Reg. \$1.00.....	SPL. 80¢
BARTLETT PEAR	1-in. cal. and up—Reg. \$1.25.....	SPL. 80¢
CHINESE CHESTNUT	4 to 5 ft. —Reg. \$1.00....	SPL. 50¢
CHINESE ELM	3-in. cal. and up—Reg. \$4.00....	SPL. \$2.50
SYCAMORE	1 1/4-in. cal. —Reg. \$1.60.....	SPL. \$1.25
LATHAM RED RASPBERRY	No. 1 —Reg. per 1000, \$60.00	SPL. ^{Per} 1000 \$45.00
FORSYTHIA FORTUNEI	2 to 3 ft.—Reg. 25c.....	SPL. 20¢
PINK-FLOWERING ALMOND	2 to 3 ft.—Reg. 55c.....	SPL. 35¢
AMUR RIVER PRIVET SOUTH	2 to 3 ft., transplants—Reg. 10c.....	SPL. 06¢

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- Colorful display banners.
- Advertising mats for newspaper promotions.

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OZARK Nurseries / Tahlequah, Okla.

BAIER LUSTGARTEN AZALEALAND NURSERIES

Northern-grown, hardy azaleas, well-budded, sheared, heavy stock, field-grown, excellent foliage, over 200,000 for spring delivery. All B&B.

Amoena	Each	Snow	Each	Favorite	Each
8 ins.	\$0.75	8 ins.	\$0.75	8 ins.	\$0.75
10 ins.	1.00	10 ins.	1.00	10 ins.	1.00
12 ins.	1.25	12 ins.	1.25	12 ins.	1.25
15 ins.	2.00	15 ins.	2.00	15 ins.	2.00
18 ins.	2.50	18 ins.	2.50	18 ins.	2.50
Coral Bells		Maxwelli		Beethoven	
8 ins. ....	.75	8 ins. ....	.75	8 ins. ....	.75
10 ins.	1.00	10 ins.	1.00	10 ins.	1.00
12 ins.	1.25	12 ins.	1.25	12 ins.	1.25
15 ins.	2.00	15 ins.	2.00	15 ins.	2.00
18 ins.	2.50	18 ins.	2.50	18 ins.	2.50
Hinodegiri		Louise Gable		Johann Strauss	
Our Hinos are very		8 ins.	1.00	8 ins. ....	.75
dark red.		10 ins.	1.25	10 ins.	1.00
8 ins. ....	.75	12 ins.	1.50	12 ins.	1.25
10 ins.	1.00	15 ins.	2.50	15 ins.	2.00
12 ins.	1.25	Rose Bud		18 ins.	2.50
15 ins.	2.00	8 ins.	1.00	20 ins.	3.50
18 ins.	2.50	10 ins.	1.25	Lilacina	
20 ins.	3.50	12 ins.	1.50	8 ins. ....	.75
24 ins.	5.00	15 ins.	2.50	10 ins.	1.00
30 ins.	6.00	18 ins.	3.50	12 ins.	1.25
36 ins.	7.50	24 ins.	6.50	15 ins.	2.00
Orange Beauty, Kurume		Addy Wery		18 ins.	2.50
8 ins. ....	.75	8 ins.	1.00	20 ins.	3.50
10 ins.	1.00	10 ins.	1.25	24 ins.	5.00
12 ins.	1.25	12 ins.	1.50	Kaempferi	
15 ins.	2.00	15 ins.	2.50	Hardest of all azaleas;	
18 ins.	2.50	18 ins.	3.50	sheared, well-budded,	
Hino-Crimson		24 ins.	5.00	heavy.	
8 ins. ....	.75	Apple Blossom, Kurume		Othello, Salmon Beauty,	
10 ins.	1.00	8 ins. ....	.75	Fedora and Carmen	
12 ins.	1.25	10 ins.	1.00	8 ins. ....	.75
15 ins.	2.00	12 ins.	1.25	10 ins.	1.00
18 ins.	2.50	Daybreak, Kurume		12 ins.	1.25
Ledifolia Alba		8 ins. ....	.75	15 ins.	2.00
8 ins. ....	.75	10 ins.	1.00	18 ins.	2.50
10 ins.	1.00	12 ins.	1.25	20 ins.	3.50
12 ins.	1.25	15 ins.	2.00	24 ins.	5.00
15 ins.	2.00	18 ins.	3.50	30 ins.	6.00
18 ins.	2.50	20 ins.	3.50	36 ins.	7.50
20 ins.	3.50				
24 ins.	5.00				

1-yr., T., \$125.00 per 1000.

Our azalea beds are treated for shipment outside Japanese Beetle zone.

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4 to 5-yr., heavy liners of our own compact strain.
8 to 10 ins., T., \$35.00 per 100
10 to 12 ins., T., \$50.00 per 100

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One of the largest blocks of hardy, northern-grown Ilex. Heavy, well-sheared plants with exceptionally good color. Prices are each per 100 (25 or more). Write for special quotation on large quantities.

2½ to 3 ft.	\$4.75
3 to 3½ ft.	5.75
3½ to 4 ft.	6.75
4 to 4½ ft.	9.00

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R. D. No. 1

Mohnton, Pa.

HEMLOCK

Rhododendron • Kalmia • Azalea

CURTIS NURSERIES

CALLICOON, N. Y.

LINING-OUT STOCK

Taxus capitata, 2-yr., S.
Taxus, transplants, 2 to 4 yrs.
Boston Ivy, 1-yr., S.
Red Barberry, 2-yr., S.

Write for list.

PETER BROUWER'S NURSERIES

24 Lester St. New London, Conn.

FRASER TO SELL FIRM

Intention to sell Southern States Nurseries, Macclenny, Fla., one of the largest nurseries in the south, was announced last month by Senator Edwin Fraser, president and chief stockholder. He said the nursery was being sold so he could devote necessary time to his senate post, and for other reasons. The nursery consists of 850 acres, of which 500 are currently under cultivation.

NEW YORK FLOWER SHOW

[Continued from page 9]

tator attention. The majority of gardens featured the outdoor living theme, with patio and terrace areas a prime element in the over-all design. The Japanese trend in garden design, which seemed so prevalent the past few years, was noticeably in the minority at this year's show. Gardens, by and large, were enclosed with masses of broad and narrow-leaved evergreens and spring-flowering shrubs, with borders and drifts of spring-flowering bulbs and perennials.

Brookside Nurseries, Inc., Darien, Conn., was awarded the Lambertus C. Bobbink memorial trophy and a special show trophy for a 3-level primrose garden. Weathered railroad ties were used at the base of each level, with masses of primroses in a wide range of color in the foreground and at each side of the upper level. A huge berried holly in the background was underplanted with hybrid rhododendrons and white azaleas. Two white poles, centered as an entrance to the upper level of the garden, were used to support pots of tuberous-rooted begonias, and large tub plantings of begonias were at the base of each pole.

Atlantic Avenue Nurseries, Freeport, L. I., were given the Betty Blossom award for outstanding garden design, in addition to a special show plaque, for a semiformal garden with a raised flagstone terrace extending from the facade of a modern ranch-type home. The rectangular lawn area was accented with large stone flags which led to a redwood shelter area in the rear. White birch was used as an accent in front of the sheltered area and also alongside the raised terrace. Ground covers were planted along two sides of the garden, with a small fountain and birdbath just off the terrace.

Jackson & Perkins, Newark, N. Y., won the Philadelphia flower show gold medal, in addition to the In-



MORE NURSERYMEN EACH YEAR CHOOSE FINER LINERS in JIFFY POTS

They want and get top-quality liners that are grown, sold and shipped in lightweight peat moss pots in lightweight veneer trays that can be easily unpacked and carried to the planting site or held if necessary (plants keep right on growing). No fuss, no problems, no high shipping costs. Most important there is no transplant shock. This means more and quicker growth and fuller stands. Order now to be sure we will ship when you need them, or deliver at low cost. Complete satisfaction is assured. We have facilities for over a quarter-million pots. May we quote your future requirements?

DISCOUNTS: 15 large trays or equivalent—5%; 30 trays—10%; 100 trays—15%. Pickup at nursery—3%. Cash—2%. It pays to buy more—especially FINER LINERS. No charge for packing!

2 1/4-in. Pots

36 plants per tray. (Trays of 12 plants are sold for half the amount for 36.)

HARDY DECIDUOUS AZALEAS, S.

Calendulacea, red and orange	\$ 7.20
Exbury Hybrids, mixed colors	10.80
Ghent Hybrids, mixed colors	7.20
Knapp Hill Hybrids, mixed	10.80
Mucronulata, rose-purple	7.20
Mollis Lemonora, apricot	7.20
Mollis Orange-Yellow	7.20
Mollis Robespierre, orange-red	7.20
Pontica (Havum), yellow	9.00
Schlippenbachii (Royal Azalea)	9.00

HARDY EVERGREEN AZALEAS, C.

Beethoven, large dark mauve	6.48
Delaware Valley White, early white	7.20
Hino-Crimson, crimson-red	6.12

Gable Hybrids

Camp Fire, bright red, hose-in-hose	7.20
Caroline Gable, pink, hose-in-hose	7.20
Elizabeth Gable, rose-pink	7.20
Herbert, crimson-purple, hose-in-hose	7.20

La Lumiere, flame-red	7.20
Lorna, deep pink, double	7.20
Louise Gable, salmon-pink	7.20
Purple Splendor, hose-in-hose	7.20
Rosebud, rose-pink, double	7.20
Rose Greeley, white, hose-in-hose	7.20
Kaempferi Lady Liberty, orange-red	6.48
Kaempferi Late Hybrid, flame-red	6.48
Nancy, new, hose-in-hose, bright pink	7.20
Wendy, new, low, white	7.20

Acer palmatum atropurpureum, 2-yr., S.	12.60
Berberis Crimson Pygmy	7.92
Buxus microphylla koreana	7.20
Buxus microphylla koreana Staygreen	10.80
Buxus sempervirens Croni	7.20
Buxus sempervirens Hardy Michigan	7.20
Buxus sempervirens Newport Blue	7.20
Buxus Vardar Valley (\$9.00 per 12)	
Cedrus atlantica glauca, GR., June (\$15.00 per 12)	
Chamaecyparis obtusa erippsi, GR., June	27.00
Chamaecyparis obtusa gracilis compacta, GR., June	27.00
Chamaecyparis obtusa gracilis nana, GR., June	27.00
Hex aquifolium, female (English Holly)	11.52
Hex aquifolium, male (English Holly)	11.52
Hex aquifolium pyramidalis, female	11.52
Hex crenata (Japanese Holly)	6.48
Convexa (bullata) Latifolia	
Gloss Compacta Microphylla	
Gloss Compacta (Vermeulen)	
Hex crenata Flushing, new, very hardy	7.20
Hex crenata Green Thumb, new, bright green	10.80
Hex opaca (American Holly)	11.52
Clark Furage Pyramidalis	
Manig Selected Males	
Juniperus (Juniper) Splendor Berry	8.64
Glaucna hetzi Pfitzeriana	
Squamata expansa Pfitzeriana glauca	
(Parsoni) Plumosa (Andorra)	

2 1/4-in. Pots—Continued

Juniperus squamata variegata	\$ 9.00
Juniperus procumbens nana, GR., June	19.80
Pieris floribunda (Mountain Andromeda), S.	8.10
Pyracantha (Fire Thorn)	6.84
Coccinea lalandi Wyattii	
Coccinea Lowboy	

Rhododendron Hybrids, red parents, S.

Sarcococca hookeriana humilis	7.20
Taxus baccata repandens (Spreading English)	7.92
Taxus capitata, upright pyramid	7.92
Taxus cuspidata densa, dwarf spreader	7.92
Taxus (Yew)	6.84

Andersoni Hicksi	
Browni Hunnewelliana	
Cuspidata Intermedia	
Densiformis Kelsey, upright	
Halloran Vermeulen	
Hatfieldi	
Taxus media Verticalis, tall, slender	8.64
Flushing Robusta	
Grandifolia Sentinalis	
Pilaris Viridis	
Pyramidalis	

3-in. Pots

25 plants per tray. (Trays of 6 plants are sold for half the amount for 25.)

Acer palmatum atropurpureum, 2-yr., S., TT.	\$11.25
Acer palmatum (Japanese Red Maple), TT.	18.75

Atropurpureum Burgundy Lace

Bloodgood Oshu Beni

Azaleas, S., TT., hardy deciduous

Calendulacea, red and orange

Embley Hybrids, mixed, large

Ghent Hybrids, mixed, hardy

Japonica, yellow

Kaempferi, real hardy, salmon to red

Knapp Hill Hybrids, mixed, large

Mollis, mixed colors

Mollis Hortulanus White, orange-yellow

Mollis Lemonora, apricot and rose

Mollis Mrs. Oliver Slocock, orange-yellow

Mollis Orange-Yellow

Mollis Robespierre, orange-red

Mucronulata, rose-purple

Poukhanensis, reddish-violet

William III, orange

Corylopsis spicata (Winter Hazel)

Euonymus Jewell, new, low, compact

Euonymus Sarcocoe, new, upright

Forsythia Beatrix Fordard, new

Franklinia alatamaha (Gordonia)

Franklinia alatamaha, 1-yr., 1 to 2 ft.

Hedera helix Albany, hardy globe

Hex aquifolium (English Holly)

Hex crenata Green Thumb, new

Hex opaca (American Holly), male

Hex opaca pyramidalis, female, 6 to 12 ins.

Hex opaca pyramidalis, female, 12 to 15 ins.

Kalmia latifolia, S., TT.

Leucothoe axillaris, low, bright

Leucothoe catesbeii, S., TT.

Magnolia norbertiana (\$3.30 per 6)

Magnolia soulangiana

Magnolia soulangiana lenei

Magnolia soulangiana nigra

Magnolia stellata Royal Star, new, late

large bright white, hardy

Magnolia stellata Water Lily

3-in. Pots—Continued

Metasequoia glyptostroboides (Dawn Redwood), 1-yr.

Pieris floribunda, S., TT.

Pieris japonica, S., TT.

Pieris japonica Compact

Pieris japonica Pink Bud

Pieris japonica Dorothy Wyckoff (\$5.40 per 6)

Pinus strobus (White Pine)

Prunus Kwanzan (Japanese Flowering Cherry)

Prunus laurocerasus schipkaensis, 2-yr.

Rhododendron Hybrids, TT., 8 species

Carolinianum, low, compact, pink

Catawbiense Hybrids, hardiest, pink parents

Catawbiense Hybrids, hardiest, red parents

Catawbiense Hybrids, hardiest, white parents

Decorum, white to soft rose

Discolor Hybrids, mixed colors

Farquhar's Hybrids, pink and red

Fortunei Hardy Variants, possible red hybrid

Fortunei Hybrids, white to pink, fragrant

Taxus (Yew), 2-yr., 8 to 12 ins.

Densiformis Kelsey

Hatfieldi Vermeulen

Intermedia

Tsuga canadensis compacta, 1-yr., GR.

Viburnum (\$7.50 per 6)

Burkwoodi Rhytidophyllum

Fragnans

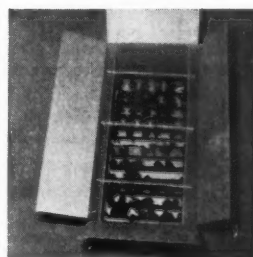
S.—after the name means they were grown from seed.
GR.—are grafts; all others are from cuttings.



Trays of 12 Plants, 2 1/4-in. Taxus and Japanese Holly



Trays of 36 plants, 2 1/4-in. American Holly



Two trays of 36 FINER LINERS. Ready for safe shipment anywhere.



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Lining-Out Stock
Since 1921



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Mailed On
Request

LINING-OUT STOCK

<i>Ilex crenata convexa</i>		<i>Taxus baccata repandens</i>	
3-yr.	15c	3-yr.	25c
2-yr.	12c	2-yr.	20c
<i>Ilex helleri (crenata)</i>		<i>Taxus hicksi, upright</i>	
3-yr.	17½c	3-yr.	22½c
2-yr.	15c	2-yr.	17½c
<i>Ilex crenata microphylla</i>		<i>Taxus hatfieldi, upright</i>	
2-yr.	15c	3-yr.	22½c
<i>Ilex crenata rotundifolia</i>		2-yr.	17½c
3-yr.	15c	<i>Taxus Lynch No. 1, dwarf spreading</i>	
<i>Juniper, Armstrong</i>		3-yr.	22½c
3-yr.	25c	2-yr.	17½c
<i>Taxus cuspidata capitata</i>		<i>Taxus T-31, semiglobe</i>	
4-yr., S., T.	25c	3-yr.	22½c
3-yr., S., T.	20c	2-yr.	17½c
<i>Taxus cuspidata, spreading</i>		<i>Taxus, Vermeulen, upright</i>	
3-yr.	22½c	3-yr.	22½c
2-yr.	17½c	2-yr.	17½c
<i>Taxus brownii, vase shape</i>		<i>Tsuga canadensis</i>	
3-yr.	22½c	3-yr., T.	30c
2-yr.	17½c	2-yr., T.	25c

All stock is listed by the number of years that it has been growing in outside beds. Terms of sale: All orders F.O.B. Lincoln, Del. All orders must be accompanied by cash or 25% deposit and balance C.O.D. or satisfactory credit references.

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Phone: GArden 2-4445 Lincoln, Del.
(Our 35th Year)

WHOLESALE GROWERS

Seedlings—Transplants—Potted and Field Liners—Finished Stock
Taxus a specialty.

Complete catalog on request.

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247 Freeport Rd.
Butler, Pa.

CANADIAN HEMLOCK and BALSAM FIR

Northern-Grown

	Per 100	Per 1000
3 to 6 ins., S.	\$ 3.00	\$ 17.50
6 to 9 ins., S.	5.00	30.00
9 to 12 ins., S.	9.00	70.00
12 to 18 ins., S.	12.50	100.00
18 to 24 ins., S.	30.00	

Freshly collected. Well rooted. Puddled and packed in sphagnum moss. Catalog of plants, ferns, evergreens on request.

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Charlotte, Vt.

B & B EVERGREENS

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HEMLOCK JUNIPER
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Broad Brook, Conn.

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Phone: GI 4-6848

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Melife, Va.

Landscape-size Evergreens, Azaleas,

Ornamental Trees and Plants

Specializing in heavy, quality,
lining-out stock.

"A Friendly, Efficient Sales Service"

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Wallingford, Conn.

Representing Wholesale Growers
of Fine Nursery Stock.

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THAN A QUARTER OF A CENTURY.

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of the January 1 issue.

ternational flower show directors' trophy, for a semiformal rose garden, which featured some of the firm's new varieties. Raised weathered-brick planting beds were used in the background in front of a white board fence and clumps of birch trees. A small mall in the center held a fountain and pool, with a raised sundial in the foreground. Beds in the foreground were also planted with the firm's newer rose varieties, and tree roses were used as color accents throughout the design.

Madsen & Christensen, Inc., Wood-Ridge, N. J., was given a show trophy and several other awards for an informal rhododendron and azalea garden planted on a gentle slope with a crescent grass area in the foreground. This firm also won an award for a toxic plant exhibit and for flowering plants used to decorate the Coliseum columns on both floors.

Julius Roehrs Co., East Rutherford, N. J., gained a show trophy for an informal tropical garden designed around a simulated house facade.

The Arnold Arboretum, Jamaica Plain, Mass., was awarded the T. A. Weston memorial trophy and an international flower show gold medal for an educational display on the correct methods of pruning trees. Among the subjects covered were how cuts should be made so that wounds heal over, remedying weak crotches by pruning, importance of pruning dead branches, staking and wiring newly planted trees and girdling of roots.

Everett Conklin & Co., Westwood, N. J., received a show trophy for the finest international exhibit. Designed around a huge map of the world, this display had plant materials from foreign countries flown in especially for the show. Shipping boxes from the foreign lands were also used as an integral part of the colorful exhibit. Four suspended globes were arranged in a simulated orbit around the main part of the display and were connected with garlands of laurel.

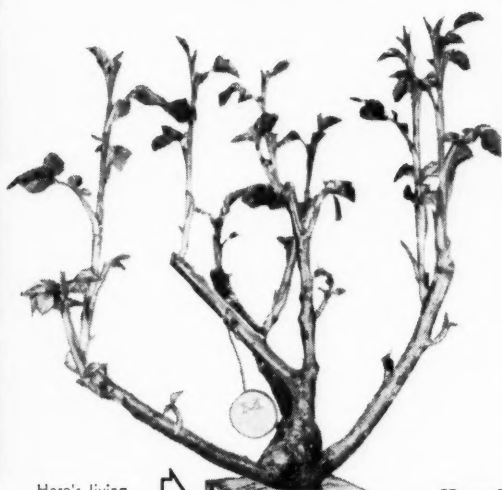
Rock Garden Winner

The New York Botanical Garden won the Massachusetts Horticultural Society gold medal and a New York Florists' Club trophy for a rock garden designed around a waterfall and pool. Flowering azaleas and broad-leaved evergreens were used as a background and ground covers and spring-flowering bulbs in the foreground and around the pool. The

5 M Trail Blazer PRE-PLANTED Rose ...

Outselling All Others

*... and with more
Profit to You!*



Here's living proof that Five M Trail Blazer Pre-Planted Rose-bushes grow ... and proof that they will extend their shelf life and become a more valuable "potted" plant should they force out.



There are a dozen fast-selling FIVE M PRE-PLANTED Rosebushes in each attractive self-contained display case. Sets up easily ... and sells itself. Available in the best-known patented and standard varieties.



Here's what the Trade is saying ...

"Customers will consistently pick up your \$1.95 Pre-Planted Bush rather than the \$1.49 packaged bush."

"Our store managers are exceptionally well pleased because your Pre-Planted Bushes make an outstanding display ... so easy to fix."

"We prefer your Pre-Planted Roses because they are easier to display and easier to sell because they are Pre-Pruned."

"Confident that our selling season will be lengthened by several weeks."

"Our entire business is going into your Pre-Planted line."

"Our patented rose sales have increased very noticeably."

"Attached is our third order for your Trail Blazer Pre-Planted Rosebushes."

"It is our feeling that Five M Nurseries has made one of the most outstanding contributions to merchandising (roses) that have been made in the entire history of nursery selling."

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2-yr., S., 9 to 12 ins.	8.00	70.00	300.00
2-yr., S., 12 to 18 ins.	10.00	90.00	400.00
2-yr., S., 18 to 24 ins.	15.00	125.00	575.00
3-yr., T., lightweight, 18 to 24 ins.	27.50	240.00	.....
4-yr., T., heavy, 12 to 15 ins.	25.00	225.00	.....
4-yr., T., heavy, 15 to 18 ins.	30.00	275.00
4-yr., T., heavy, 18 to 24 ins.	35.00	325.00
4-yr., T., heavy, 2 to 2½ ft.	37.50	350.00

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Brooklyn Botanic Garden featured a display of indoor and outdoor-flowering bulbs and volunteered information on their culture.

Landscape Associates - Dalsimer, Inc., Brookville, N. Y., showed a patio garden for a contemporary home, with a grove of trees placed inside the patio for a "pool of shade." A steppingstone path on the left of the patio area was accented by a pool and fountain against a background of a white, latticed concrete. The foreground was planted with pink rhododendrons, with a bed of white azaleas, white tulips and andromedas. Modern stone and metal statuary was placed at the rear entrance to the patio and in a broad-leaved evergreen planting in the background.

Panfield Nurseries, Inc., Huntington, N. Y., featured a "Meditation" garden of semiformal design. A flagstone path led from a facade of a stained glass shelter into a circular grass mall area, which was centered by an antique iron-filigree well. Semi-circular weathered stone benches were on each side of the grass mall. The background planting along the entrance path was in white and pink azaleas and andromedas. Tulip beds in deep red, maroon, yellow and pink tones surrounded the circular lawn area. Dwarf Ilex crenata was used as edging, with three specimen dogwood trees in the foreground of the garden.

Rosedale Nurseries, Hawthorne, N. Y., designed a garden with a raised flagstone terrace overlooking a lawn and swimming pool. The edging of the terrace was done with low-growing pink geraniums, with white and pink azaleas combined with broad-leaved evergreens grouped on each side of the terrace area and along the mall area in the foreground. A large specimen Japanese maple was placed in the right rear of the terrace area.

Arboreal Associates, Harriman, N. Y., showed a Japanese garden with authentic Japanese fences and a gate. Large camellia plants, bamboo and Japanese maple supported the Oriental flavor of the design.

PHILADELPHIA SHOW

Three of the five top awards given during the Philadelphia flower show, held at the Trade and Convention Center March 5 to 11, were given to Albert F. W. Vick, Jr., proprietor of Vick's Wildgardens, Inc., Gladwyne, Pa., and Mr. and Mrs. Robert G. Stone, Dedham, Mass. Their exhibit, entitled "Acacia Is-

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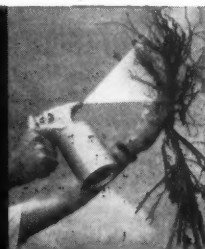
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<i>Taxus Halloran</i>	65.00	600.00
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<i>Taxus nana erecta</i>	65.00	600.00
<i>Taxus stovekeni</i>	65.00	600.00
<i>Taxus thayerae</i>	65.00	600.00
4-yr., TT.		
<i>Taxus andersoni</i>	50.00	450.00
<i>Taxus browni</i>	50.00	450.00
<i>Taxus cuspidata</i>	50.00	450.00
<i>Taxus hicksi</i>	50.00	450.00
<i>Taxus Halloran</i>	50.00	450.00

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land," the hit of the show, included 30 varieties of acacias, a thatched shelter and a 15-foot waterfall, which filled two pools. Mr. Vick won the gold medal of the International flower show for unusual skill in combining culture and showmanship. He and the Dedhams received jointly the Garden Club of America Bulkley medal, the first time it has been awarded jointly. It was given for display of special merit and educational value.

For the first time in its 34-year history, the show opened on a Sunday. Balmy weather and the chance to see four acres of springtime blooms drew 21,000 visitors March 5, and officials estimated that between 80,000 and 100,000 visitors would attend before the show closed. The opening ceremony was attended by Mayor and Mrs. Richardson Dilworth. Upon receiving a 3-foot floral key from W. Atlee Burpee, Jr., president of the Philadelphia flower show, Mrs. Richardson opened the show formally by cutting a white ribbon at the entrance.

Azalea Greeting

Fisher Greenhouses, Linwood, N. J., greeted visitors at the entrance with "Azaleas of the Present" and "Azaleas of the Future," four banks of blazing blooms. Next, two facing gardens suggested relaxation, comfort and easy garden maintenance. The trend in the show indicated smaller lawn areas.

Hansen Bros., Narberth, exhibited a "Garden Retreat," 20x40 feet, which featured a terrace made of old bricks, three handsome European larches, azaleas and rhododendron and plenty of ground cover, making for carefree living. A hedge of *Viburnum carlesi* was notable. Part of the terrace included a small pool, edged with red azaleas. A brick path led to the terrace.

Down the aisle were two large exhibits, each 1,600 square feet in area. On one side, Styer's Nurseries, Concordville, Pa., built a patio against the walls of an old mill and planted a hillside with shadbush, white birch, yellow azaleas and laburnum. Blueberry bushes and day lilies grew by the walls and along a stream, where a water wheel turned slowly. Old railroad ties and stone were combined in the wall separating the retreat from the water wheel.

Conard-Pyle Co., West Grove, Pa., presented an informal rose garden that included many new varieties. There was no wall around this year's exhibit, and a walk led through the planting. A small garden of miniature roses was set within the big

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Transplanted stock grown in open field beds.

Each				Each				Each			
100 1000				100 1000				100 1000			
rate rate				rate rate				rate rate			
Abies concolor (Concolor Fir)				Illex crenata hetzi				White Pine (<i>Pinus strobus</i>)			
4 to 6 ins., 4-yr., T.	.....	\$0.30	\$0.20	large glossy leaf				3 to 5 ins., 2-yr., S.	.....	\$0.08	\$0.03
6 to 8 ins., 5-yr., T.	.....	.35	.25	6 to 8 ins., 2-yr., T.	.....	\$0.30	\$0.28	4 to 8 ins., 3-yr., S.	.....	.10	.04
10 to 15 ins., 5-yr., T.	.....	.45	.38	8 to 10 ins., 2-yr., T.	.....	.40	.38	Pinus mugo , Tyrolean-Swiss			
Azalea kaempferi (Flame Azalea)				10 to 12 ins., 3-yr., T.	.....	.45	.42	2 to 3 ins., 3-yr., S.	.....	.10	.09
3 to 6 ins., 2-yr., T.	.....	.25	.22	12 to 15 ins., 4-yr., T.	.....	.60	.55	3 to 4 ins., 3-yr., S.	.....	.15	.12
6 to 8 ins., 3-yr., T.	.....	.30	.28	Illex crenata helleri , very dwarf				4 to 6 ins., 3-yr., S.	.....	.18	.16
Azalea Ghent Hybrid , mixed pastels				4 to 6 ins., 3-yr., T.	.....	.38	...	(Order minimum, 500 at 1000 rate.)			
2 to 4 ins., 2-yr., T.	.....	.20	.18	6 to 8 ins., 4-yr., T.	.....	.45	...	Pyraeantha cocc. islandi (Fire Thorn)			
4 to 6 ins., 2-yr., T.	.....	.25	.22	8 to 10 ins., 4-yr., T.	.....	.75	...	4 to 6 ins., 2-yr., T.	.....	.28	.25
Azalea mollis (Chinese Azalea)				10 to 12 ins., 5-yr., T.	.....	.90	...	6 to 8 ins., 2-yr., T.	.....	.32	.30
2 to 4 ins., 2-yr., T.	.....	.12	.10	Illex rotundifolia (Round-leaved Holly)				8 to 10 ins., 2-yr., T.	.....	.38	.35
3 to 5 ins., 3-yr., T.	.....	.20	.18	4 to 6 ins., 2-yr., T.	.....	.35	.30	10 to 12 ins., 3-yr., T.	.....	.40	.38
5 to 8 ins., 3-yr., T., field.	.....	.25	.22	8 to 10 ins., 2-yr., T.	.....	.40	.35	Quercus palustris (Pin Oak)			
Azalea mucronulatum , lavender				12 to 15 ins., 4-yr., T.	.....	.50	.45	4 to 6 ins., 1-yr., S.	.....	.10	.08
1 to 3 ins., 1-yr., T.	.....	.25	.20	12 to 15 ins., 5-yr., T., heavy	.....	.65	.60	Rhododendron Hybrid , seed; from red stock			
4 to 6 ins., 2-yr., T.	.....	.30	.25	15 to 18 ins., 6-yr., T., field.	1.00	.90	...	3 to 5 ins., 3-yr., T.	.....	.35	.32
6 to 8 ins., 3-yr., T.	.....	.35	.30	Juniper Andorra (Purple Andorra)				4 to 6 ins., 4-yr., T.	.....	.45	.42
Azalea poukhanensis				4 to 6 ins., 1-yr., T.	.....	.22	.20	6 to 8 ins., 4-yr., T.	.....	.55	.48
2 to 3 ins., 2-yr., T.	.....	.22	.20	8 to 10 ins., 3-yr., T.	.....	.40	.38	Scotch Pine (<i>Pinus sylvestris</i>)			
3 to 4 ins., 3-yr., T.	.....	.30	.28	Juniper canadensis aurea (Golden Canadian Juniper)				3 to 14 ins., 4-yr., T.	.....	.15	.05
Azalea schlippenbachii (Royal Azalea)				4 to 6 ins., 2-yr., T.	.....	.25	...	10 to 15 ins., 4-yr., T.	.....	.15	.06
1-yr., T. bedded	.....	.18	.15	Juniper glauca hetzi (Hetz Juniper)				(Order minimum, 500 at 1000 rate.)			
2 to 3 ins., 2-yr., T.	.....	.22	.20	4 to 6 ins., 2-yr., T.	.....	.30	.18	Taxus capitata (Upright Jack Yew)			
3 to 6 ins., 3-yr., T.	.....	.30	.28	6 to 10 ins., 2-yr., T.	.....	.25	.22	Seedlings			
Buxus sempervirens welleri (Weller's Hardy Boxwood)				8 to 12 ins., 2-yr., T.	.....	.32	.28	2 to 3 ins., 2-yr., S.	.....	.05	.04
4 to 6 ins., 2-yr., T.	.....	.25	.22	10 to 15 ins., 2-yr., T.	.....	.35	.30	3 to 4 ins., 3-yr., S.	.....	.07	.06
6 to 8 ins., 2-yr., T.	.....	.30	.28	12 to 15 ins., 3-yr., T., etbk.	.....	.45	.42	4 to 6 ins., 4-yr., S.	.....	.09	.07
8 to 10 ins., 3-yr., T.	.....	.35	.32	12 to 18 ins., 4-yr., T., etbk.	.....	.55	.50	6 to 8 ins., 3-yr., S.	.....	.15	.12
10 to 12 ins., 3-yr., T.	.....	.40	.38	Juniper hibernica fastigiata (Compact Irish Juniper)				8 to 10 ins., 4-yr., S.	.....	.18	.16
12 to 15 ins., 4-yr., T.	.....	.50	.45	4 to 8 ins., 2-yr., T.	.....	.20	.18	10 to 12 ins., 4-yr., S.	.....	.22	.19
Chamaecyparis filifera aurea (Golden Thread Cypress)				8 to 10 ins., 2-yr., T.	.....	.25	.22	Taxus capitata (Upright Jack Yew)			
3 to 4 ins., 2-yr., T.	.....	.25	.22	10 to 12 ins., 2-yr., T.	.....	.35	.30	Transplants			
4 to 6 ins., 2-yr., T.	.....	.28	.25	12 to 15 ins., 3-yr., T.	.....	.45	.40	4 to 6 ins., 3-yr., T.	.....	.28	.25
Chamaecyparis lawsoniana allumi (Blue Cypress)				Juniper horizontalis glauca				6 to 8 ins., 3-yr., T.	.....	.30	.28
4 to 6 ins., 2-yr., T.	.....	.22	.18	6 to 8 ins., 2-yr., T.	.....	.35	.32	8 to 10 ins., 3-yr., T.	.....	.35	.32
6 to 10 ins., 2-yr., T.	.....	.30	.28	8 to 10 ins., 2-yr., T.	.....	.40	...	8 to 15 ins., 3-yr., T., etbk.	.....	.45	.40
8 to 10 ins., 3-yr., T.	.....	.35	.30	10 to 15 ins., 3-yr., T.	.....	.50	...	10 to 12 ins., 6-yr., T., etbk.	.....	.75	.65
10 to 15 ins., 3-yr., T.	.....	.45	.40	Juniper chinensis pfitzeriana				12 to 15 ins., 6-yr., T., etbk.	.....	.90	.80
Colorado Blue Spruce (<i>Picea pungens</i>)				4 to 6 ins., 2-yr., T.	.....	.28	.25	Taxus cuspidata (Spreading Yew)			
4 to 6 ins., 3-yr., T.	.....	.18	.15	6 to 8 ins., 2-yr., T.	.....	.32	.30	4 to 6 ins., 2-yr., T., beds.	.....	.20	.18
6 to 8 ins., 4-yr., T.	.....	.22	.18	8 to 10 ins., 2-yr., T.	.....	.40	.38	6 to 8 ins., 2-yr., T., beds.	.....	.25	.22
8 to 10 ins., 5-yr., T.	.....	.28	.25	10 to 12 ins., 2-yr., T.	.....	.50	.45	8 to 10 ins., 3-yr., T.	.....	.35	.32
10 to 12 ins., 5-yr., T.	.....	.35	.30	12 to 15 ins., 3-yr., T.	.....	.60	.55	10 to 12 ins., 4-yr., T.	.....	.55	.50
12 to 15 ins., 6-yr., T.	.....	.40	.35	Juniper stricta (Spiny Greek)				10 to 15 ins., 5-yr., T., fld.	.....	.65	.60
15 to 18 ins., 7-yr., T.	.....	.45	.40	4 to 6 ins., 2-yr., T.	.....	.35	...	Taxus media hicksii (Hicks' Yew)			
Douglas Fir (<i>Pseudotsuga douglasii</i>)				6 to 8 ins., 2-yr., T.	.....	.40	...	4 to 6 ins., 2-yr., T.	.....	.30	.18
4 to 6 ins., 4-yr., T.	.....	.25	.18	8 to 10 ins., 2-yr., T.	.....	.48	...	6 to 8 ins., 2-yr., T.	.....	.35	.22
6 to 8 ins., 4-yr., T.	.....	.30	.20	10 to 15 ins., 3-yr., T.	.....	.55	...	8 to 10 ins., 3-yr., T.	.....	.45	.40
8 to 10 ins., 5-yr., T.	.....	.35	.25	Juniper squamata meyeri (Blue Meyer)				10 to 12 ins., 3-yr., T.	.....	.55	.48
10 to 15 ins., 5-yr., T.	.....	.45	.38	3 to 4 ins., 2-yr., T.	.....	.32	...	10 to 12 ins., 4-yr., T.	.....	.65	.55
Euonymus alatus (Winged Euonymus)				4 to 6 ins., 2-yr., T.	.....	.40	...	Thuja occidentalis (American Arborvitae)			
6 to 10 ins., 2-yr., T.	.....	.20	.18	6 to 10 ins., 3-yr., T.	.....	.48	...	2 to 4 ins., 3-yr., S.	.....	.08	.04
10 to 12 ins., 3-yr., T.	.....	.25	.20	10 to 12 ins., 4-yr., T.	.....	.55	...	4 to 8 ins., 3-yr., S.	.....	.10	.09
12 to 15 ins., 4-yr., T.	.....	.35	.32	Leucothoe catesbaei (Drooping Andromeda)				8 to 10 ins., 4-yr., S.	.....	.15	.11
Euonymus fortunei coloratus (Prostrate Evergreen Creeper)				3 to 4 ins., 1-yr., T.	.....	.18	.16	10 to 15 ins., 4-yr., S.	.....	.20	.16
Low growing.				4 to 6 ins., 2-yr., T.	.....	.22	.20	Thuja occidentalis douglasii aurea (Golden Douglas Arborvitae)			
4 to 8 ins., 1-yr., T.	.....	.18	.16	6 to 8 ins., 2-yr., T.	.....	.25	.22	8 to 10 ins., 3-yr., T.	.....	.45	...
8 to 12 ins., 2-yr., T.	.....	.28	.25	8 to 10 ins., 3-yr., T.	.....	.35	.30	10 to 12 ins., 3-yr., T.	.....	.55	...
Euonymus fortunei erectus (Evergreen Big-leaved Winter Creeper)				10 to 15 ins., 3-yr., T.	.....	.45	.40	12 to 15 ins., 4-yr., T.	.....	.65	...
4 to 8 ins., 1-yr., T.	.....	.18	.16	Liquidambar styraciflua (Sweet Gum)				8 to 10 ins., 3-yr., T.	.....	.35	.30
8 to 12 ins., 2-yr., T.	.....	.25	.22	6 to 12 ins., 2-yr., field	.....	.06	.05	10 to 12 ins., 3-yr., T.	.....	.40	.35
12 to 18 ins., 3-yr., T.	.....	.35	.30	12 to 18 ins., 2-yr., field	.....	.08	.06	12 to 15 ins., 4-yr., T.	.....	.50	.45
Euonymus radicans vegetus (Evergreen Winter-Creeper)				18 to 24 ins., 3-yr., field	.....	.10	.08	15 to 24 ins., 4-yr., T.	.....	.65	...
3 to 4 ins., 1-yr., T., beds.	.....	.15	.12	2 to 3 ft., 3-yr., field	.....	.12	.10	Thuja occidentalis globosa , Woodward's			
4 to 8 ins., 1-yr., T., beds.	.....	.20	.18	Mahonia aquifolium (Oregon Grape Holly)				8 to 1 ins., 2-yr., T.	.....	.45	.42
8 to 10 ins., 2-yr., T.	.....	.35	.30	2-yr., bed run	.....	.08	.05	10 to 12 ins., 3-yr., T.	.....	.40	.35
10 to 12 ins., 3-yr., T.	.....	.45	.40	2 to 4 ins., 2-yr., S.	.....	.09	.07	12 to 15 ins., 3-yr., T.	.....	.50	.45
12 to 15 ins., 4-yr., T.	.....	.55	.50	3 to 6 ins., 3-yr., S.	.....	.12	.10	Thuja occidentalis pyramidalis (Pyramidal Arborvitae)			
Illex crenata (Pyramidal Japanese Holly)				Norway Spruce (<i>Picea excelsa</i>)				8 to 10 ins., 2-yr., T.	.....	.38	.35
8 to 10 ins., 2-yr., T.	.....	.35	.32	4 to 8 ins., 3-yr., T.	.....	.12	.05	10 to 12 ins., 2-yr., T.	.....	.45	.42
10 to 12 ins., 3-yr., T.	.....	.40	.38	5 to 10 ins., 4-yr., T.	.....	.15	.08	12 to 15 ins., 3-yr., T.	.....	.55	.50
12 to 15 ins., 3-yr., T.	.....	.45	.42	10 to 12 ins., 4-yr., T.	.....	.20	.12	15 to 18 ins., 4-yr., T.	.....	.65	.55
15 to 18 ins., 4-yr., T.	.....	.55	.50	12 to 15 ins., 5-yr., T.	.....	.25	.18	18 to 24 ins., 5-yr., T.	.....	.75	...
Illex crenata convexa (Bullata)				Pieris Japonica (Japanese Andromeda)				Tsuga canadensis (Hemlock)			
8 to 10 ins., 2-yr., T.	.....	.38	.35	1 to 3 ins., 1-yr., T.	.....	.20	.18	6 to 8 ins., 3-yr., T.	.....	.35	.30
10 to 12 ins., 2-yr., T.	.....	.48	.45	3 to 4 ins., 2-yr., T.	.....	.28	.25	Viburnum opulus nana , dwarf			
12 to 15 ins., 3-yr., T.	.....	.65	.55	4 to 6 ins., 3-yr., T.	.....	.35	.30	4 to 6 ins., 2-yr., T.	.....	.25	.20
12 to 18 ins., 5-yr., field	1.00	.90	.80	6 to 8 ins., 4-yr., T.	.....	.38	.35	6 to 8 ins., 4-yr., T.	.....	.45	.40
Illex crenata convexa (Bullata)				Austrian Pine (<i>Pinus nigra</i>)				White Spruce (<i>Picea alba</i>)			
8 to 10 ins., 2-yr., T.	.....	.38	.35	6 to 8 ins., 3-yr., S.	.....	.12	.09½	6 to 10 ins., 5-yr., T.	.....	.20	.15
10 to 12 ins., 2-yr., T.	.....	.48	.45	8 to 10 ins., 3-yr., S.	.....	.15	.09½	10 to 12 ins., 5-yr., T.	.....	.25	.18
12 to 15 ins., 3-yr., T.65	.55	10 to 15 ins., 4-yr., S.20	.04	12 to 18 ins., 5-yr., T.28	.20
12 to 18 ins., 5-yr., field	1.00	.90	.80	(Order minimum, 500 at 1000 rate.)							

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Scotch Pine		Per 100	Per 1000
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2-yr., S., 4 to 8 ins.	2.00	20.00	
3-yr., S., 6 to 12 ins.	4.00	20.00	
3-yr., S., 8 to 14 ins.	4.00	20.00	
3-yr., S., 10 to 18 ins.	5.00	25.00	
French Scotch			
2-yr., S., 1 to 3 ins.	1.50	7.50	
2-yr., S., 3 to 6 ins.	4.00	20.00	
3-yr., S., 6 to 13 ins.	5.00	25.00	
4-yr., S., 12 to 20 ins.	8.00	40.00	
(2-3), T., 6 to 10 ins.	10.00	50.00	
(2-3), T., 10 to 15 ins.	16.00	75.00	
(2-3), T., 15 to 18 ins.	25.00	....
Spanish Scotch			
2-yr., S., 1 to 3 ins.	1.50	7.50	
2-yr., S., 3 to 6 ins.	4.00	20.00	
2-yr., S., 4 to 8 ins.	5.00	25.00	
3-yr., S., 6 to 12 ins.	5.00	25.00	
Austrian Pine			
2-yr., S., 1 to 3 ins.	1.50	7.50	
2-yr., S., 3 to 6 ins.	3.00	15.00	
3-yr., S., 8 to 15 ins.	6.00	30.00	
White Pine			
2-yr., S., 1 to 2 ins.	2.00	10.00	
2-yr., S., 2 to 5 ins.	3.00	15.00	
3-yr., S., 4 to 8 ins.	7.00	....
Mugho Pine, true dwarf			
3-yr., S., 1 to 3-in. height or spread	7.00	35.00	
(2-4), T., 10 to 18 ins.	....	....
\$1.00 each			
Douglas Fir (glauca)			
3-yr., S., 2 to 4 ins.	3.00	15.00	
3-yr., S., 4 to 8 ins.	6.00	30.00	
4-yr., S., 3 to 5 ins.	4.00	20.00	
4-yr., S., 5 to 10 ins.	8.00	40.00	
5-yr., S., 8 to 15 ins.	15.00	....
(2-2), T., 3 to 7 ins.	10.00	....
(2-3), T., 7 to 12 ins.	20.00	....
Concolor Fir			
3-yr., S., 2 to 4 ins.	3.00	15.00	
3-yr., S., 4 to 8 ins.	8.00	40.00	
4-yr., S., 7 to 12 ins.	12.00	....
Balsam Fir			
3-yr., S., 1 to 3 ins.	3.00	15.00	
3-yr., S., 3 to 6 ins.	6.00	30.00	
(2-2), T., 4 to 8 ins.	15.00	....
Fraser Fir			
2-yr., S., 1 to 2 ins.	4.00	....
Colorado Blue Spruce			
3-yr., S., 2 to 4 ins.	2.00	12.50	
3-yr., S., 4 to 8 ins.	5.00	25.00	
4-yr., S., 6 to 10 ins.	8.00	40.00	
4-yr., S., 10 to 16 ins.	13.00	65.00	
(3-2), T., 3 to 6 ins.	10.00	50.00	
(3-2), T., 6 to 12 ins.	20.00	90.00	
(3-2), T., 12 to 15 ins.	50.00	....
White Spruce			
3-yr., S., 2 to 4 ins.	2.00	12.50	
3-yr., S., 4 to 8 ins.	5.00	25.00	
4-yr., S., 8 to 12 ins.	7.00	35.00	
(2-4), T., 6 to 12 ins.	13.00	65.00	
(2-4), T., 12 to 18 ins.	20.00	100.00	
(2-4), T., 18 to 24 ins.	30.00	150.00	
Black Spruce (Picea mariana)			
3-yr., S., 2 to 4 ins.	2.00	12.50	
3-yr., S., 4 to 8 ins.	4.00	20.00	
Black Hills White Spruce (Picea glauca densata)			
3-yr., S., 1 to 3 ins.	2.00	12.50	
3-yr., S., 3 to 6 ins.	5.00	25.00	
4-yr., S., 6 to 12 ins.	8.00	40.00	
Engelmann Spruce			
3-yr., S., 1 to 3 ins.	2.00	12.50	
3-yr., S., 3 to 6 ins.	4.00	20.00	
3-yr., S., 6 to 10 ins.	7.00	35.00	
Norway Spruce			
2-yr., S., 2 to 4 ins.	2.00	10.00	
2-yr., S., 4 to 8 ins.	4.00	20.00	
3-yr., S., 6 to 10 ins.	5.00	25.00	
3-yr., S., 10 to 14 ins.	7.00	35.00	
4-yr., S., 14 to 20 ins.	10.00	50.00	
(2-2), T., 3 to 6 ins.	8.00	40.00	
(2-2), T., 6 to 12 ins.	13.00	65.00	
(2-2), T., 10 to 20 ins.	25.00	....
American Arborvitae			
3-yr., S., 2 to 4 ins.	4.00	20.00	
3-yr., S., 4 to 8 ins.	7.00	35.00	
Canadian Hemlock			
2-yr., S., 1 to 3 ins.	5.00	....
(3-2), T., 4 to 8 ins.	16.00	75.00	
(3-2), T., 8 to 13 ins.	25.00	125.00	
(3-2), T., 10 to 14 ins.	35.00	....
Taxus cuspidata capitata (Upright Pyramidal)			
3-yr., S., 1 to 3 ins.	10.00	50.00	
3-yr., S., 3 to 8 ins.	15.00	
Cash or 25% deposit. Balance C.O.D.			
50¢ at 1000 rate.			

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ROOTSPRED TREE PLANTER

one. Among the new rose varieties were Invitation, Suspense, Vassar Centennial, Simone and Polka. In the miniatures were Pixie Gold and Pixie Rose.

Suburban Garden

Ben Palmer planned an exhibit for the Pennsylvania Nurserymen's Association, showing a small suburban garden having espaliered plants against an English hurdle-type fence. The 20x40-foot display had Japanese cherries, viburnums and Japanese maples around a flagstone terrace. Katherine crab apple, espaliered yew and espaliered star magnolia were also seen.

Whitemarsh Nursery, Plymouth Meeting, Pa., had a contemporary garden designed by Stanley Leighton. Judd's Hollylan Nurseries, Pitman, N. J., created a scene called "Shadowed Waters." Surrounding the pool, a marble-concrete terrace and lawn were featured. Plantings included kaempferi azaleas, large pink and white azaleas, dwarf pine and weeping Japanese cherries. In the foreground were junipers, gardenias and pachysandra. Tubbed plants included crab apples and Japanese cut-leaved maples.

DeKalb Nurseries, Norristown, Pa., exhibited a swimming pool with a handsome flagstone terrace having dogwoods, red maples and rhododendrons set around it. The wall was made with patterned openings to let in air but retain privacy. Entitled "The Modern Vista," the garden held two end features linked by a mass of planting and lawn area. The modern open-faced wall was seven feet high and 100 feet long. The swimming pool at one end was balanced by a tool shed and the extension of a main building at the other end. Around a raised patio, border plantings held azaleas, hyacinths, rhododendrons, forsythias and evergreens.

Planting Time Scene

"Arrival of Planting Weather" was the theme of an exhibit by Pit-zonka's Pansy Farm, Bristol. It was a backyard garden with a hole ready for planting a pink-flowering Kwan-zan cherry tree. The background used pine, spruce and fir trees. Various perennials included bleeding hearts, primula, doricum, iberis and iris. Part of a tool shed was seen, and the tools of a gardener hung on a door; spray can, pots, hose and rake gave the appearance of the gardener's having left the scene temporarily.

Albrecht Nurseries, Inc., Narberth, Pa., showed a "Japanese En-

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1/2 to 12-in. cal.

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Manchu Cherry Seedlings
(Prunus tomentosa)

Mahaleb Cherry Seedlings

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Cuttings**

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trance Garden." Partly enclosed by a sapling fence were flowering almonds, andromedas, hollies and yews. Featured in the garden was a small contemplation pool with a fountain. In the foreground was set an Oriental garden ornament, from which a gravel path led to a fence gate. Ground covers were ivy and pachysandra. In a righthand corner, a white garden bench had spreading arborvitae behind it.

Mayfield Gardens, Upper Darby, Pa., featured a garden with a patio. "Hollies Below Zero" was the title of an exhibit by Earl Dilatush, Holly Specialist, Robbinsville, N. J. Hollies shown had been outdoors through the winter.

CLEVELAND FLOWER SHOW

March 4 to 12, the 18th annual Cleveland home and flower show was held at the Public Auditorium, Cleveland, O., the 7-acre exhibition having as its theme "The Wonder of Color." Thirteen competitive gardens and a stage area featuring scenery of the Chardon hills were of keen interest to the thousands who flocked to the exhibition.

First prize in the large garden class was won by Gali Greenhouses, Cleveland, with a fine example of the Japanese art of gardening. Steven Gali used the basic elements of the Japanese technique, but all plants were winter hardy in the Cleveland area. Fuji chrysanthemums supplied the color, with trees, shrubs and stones used sparingly about a pool and hut.

Kurt O. Laubinger & Sons, Inc., Northfield, captured second prize in this category; his garden was a charming, informal setting of flowering trees, shrubs and spring bulbs around a gently curving path and a

TAXUS DENSIFORMIS (True)

This variety has proved to be the most popular of all the spreading Taxus.

	Each Per 100	Each Per 1000
2-yr., T., strong	\$0.45	\$0.40
3-yr., T., strong60	.50
4-yr., TT., FR, strong75	.60

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25 at 100 rate.

CHINESE MAGNOLIAS

Soulangiana nigra, dark purplish-pink.
Rustica rubra, pink.
Pink superba, pink.
Stellata (Star Magnolia), semidouble, pure white.
Alexandrina, large, late pink.
Lenei, pink.
Soulangiana, pink.
Alba superba, white.
 All 2-yr., 12 to 18 ins., on own roots.
 75c each.
 Minimum order, 5 of one kind.

AZALEA KAEMPFERI

Seedling (Japanese seed). Tall-growing, large flowers in various shades of pink and red. Flowers profusely; blooms when evergreen types fall. Deciduous.
 4 to 6 ins., T. \$15.00 per 100

LEUCOTHOE CATESBAEI

A good broad-leaved evergreen that grows in dense shade. Lily-of-the-Valley like flowers, reddish-bronze foliage in winter. Contrasts well with Azaleas and Rhododendrons. Fine for flower arrangements.

Each
 4 to 6 ins., T. 15c
 6 to 8 ins., T. 20c
 8 to 10 ins., T. 25c

EUONYMUS ALATUS

(Cork Bark Euonymus)

Interesting corklike wings on branches. Red berries, foliage turns bright rose-pink in fall. Really spectacular then.
 6 to 9 ins., T. \$10.00 per 100
 10 to 12 ins., T. 15.00 per 100

AMERICAN ARBORVITAE

Each
 4 to 5 ft. \$2.50
 5 to 7 ft. 3.00
Ilex bullata, densely sheared
 18 to 21 ins. 2.50
 21 to 24 ins. 3.00
 2 to 2½ ft. 3.50
Ilex crenata, *I. fortunei*, *I. crenata*
microphylla
 18 to 21 ins. 2.50
 21 to 24 ins. 3.00
 2 to 3 ft. 3.50
 All of above plants are healthy and of good bright color.

ILEX CRENATA CONVEXA

(*Ilex Bullata*)

Owing to our unusual success in propagating this desirable item, we offer it at a very low price. Over 150,000 in stock. It is a very choice, very hardy, low-growing evergreen with shiny, dark green, convex, boxwood-like leaves. Grows fast into money, up to 2 feet, and there slows down. Ultimate size 3 feet high and 4 feet wide. Easier to grow than Yews and can be used in sun or shade. Sells on sight. Grows very dense and contrasts well with other evergreens. Makes the perfect low hedge.
 6 to 8 ins., 2-yr., T. 15c
 8 to 10 ins., 2-yr., T. 20c

PIERIS JAPONICA

The most beautiful broad-leaved evergreen of all. In summer the color of the foliage is always changing, first red, then pale green and then dark green. In August the flower buds form in graceful racemes for next spring's flowers. White Lily-of-the-Valley flowers appear with the first warm weather, and flowers often last 6 weeks. Grows well in sun or shade. Makes a nice contrast with Azaleas and Rhododendrons.

As far as we know, no nursery has ever had too much *Pieris japonica*. We had over 10,000 18 to 36-in. plants a few years ago, and today we are so oversold on it that we cannot maintain a stock of 1,000 12 to 15-in. plants. It sells on sight and transplants easily at almost any time of the year. It grows rapidly into salable plants. Can be used in any kind of planting. Can be transplanted into beds now. Each plant carries a nice ball of soil.
 4 to 6 ins., T. \$15.00 per 100
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Can be transplanted into beds now.

For those desiring a different kind of plant for the shrub border or ericaceous plantings, we recommend *Enkianthus campanulatus*. Red stems, dark green leaves, cream to pink bell-like flowers that are useful for flower arrangements and a scarlet fall foliage.
 4 to 8 ins., TT. \$15.00 per 100
 8 to 10 ins., TT. 25.00 per 100

JAPANESE BOXWOOD

Buxus Japonica is a little-appreciated evergreen because it is not well enough known. It grows fast up to 3 feet, shears well and can easily be kept at any size. Its light green, glossy leaves contrast well with other evergreens, and it will grow in sun or deepest shade—very hardy.

6 to 8 ins., 2-yr., T. \$10.00 per 100
 8 to 10 ins., 3-yr., T. 15.00 per 100

ENGLISH BOXWOOD

Part of the charm of many old gardens is produced by the edgings of Old English Boxwood. Plant some in a bed 6x8 ins. and in a couple of years you will have a stock for your customers. Its appeal is irresistible. It can be transplanted now.

3 to 4 ins., T. \$10.00 per 100

AMERICAN BOXWOOD

Grows rapidly, will tolerate shade. Very hardy.

Each
 4 to 6 ins., T. 10c
 6 to 8 ins., T. 15c

CORNUS MAS

(Cornelian Cherry)

Small tree, yellow flowers in spring; scarlet fruits in August.

9 to 12 ins., T. \$10.00 per 100

CALLICARPA JAPONICA

Bears quantities of bright violet berries in fall.

8 to 12 ins., T. \$10.00 per 100

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Cuspidata 15c
Media browni 15c
Media Hicksi 15c
 8 to 10 ins. 25c
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pool. Dominating the entire setting was an Atlas cedar.

Hi-Way Nursery, Westlake, won third prize in the large garden class as Jack Endress created a 2-level terraced effect of steppingstones leading through exquisite tuberous-rooted begonias. Two splendid Dawn redwood trees highlighted the shrub planting.

Another Japanese garden, this one a formal contemporary setting, was executed by Robert Perkins, C. R. Perkins & Sons, Westlake, and won

honorable mention. A lily pool with rectangular beds of chrysanthemums and two flowering cherry trees provided the Japanese influence.

Honorable mention was also awarded Frank and Dick Spear, Stony Acre Gardens, Warrensville, for a well-conceived garden, in the Oriental style, making typical Eastern use of limited space. A small footbridge spanned a stream leading to a lily pool, and the early-blooming lavender *Azalea mucronulata* lent color accent.

Use of Japanese tree peonies with 9 to 12-inch blooms in a semiformal perennial garden won honorable mention for Fred Schneider & Sons Co., Rocky River. Equally attractive in this garden were several of the new hybrid rhododendrons of Anthony Shammarello, South Euclid; flowering crab apples and star magnolias supplied background color, and expert work in forcing delphinium and hollyhocks into winter bloom also brought much attention.

First prize among the small gar-

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BOULEVARD NURSERIES

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dens was awarded to Lieuhaven Gardens, Inc., Westlake, for a simple informal garden staged by Larry Lieux. Around a paved octagonal sitting area he used vibrant Irene geraniums, blue browallia and gray dusty miller. A large clump of white birch and a pair of concolor firs shaded and accented the sitting area.

Honorable mention went to Hirt's Greenhouses, Strongsville, with a lily pool surrounded with Japanese andromeda, pink-flowering dogwood and Irish junipers, having boxwood edgings and English ivy in the foreground. This garden portrayed good use of limited space and a charming garden wall.

Jim Beam, Sunbeam Farm, Westlake, featured a primrose garden that won an honorable mention. He showed what the home gardener with limited sunlight in the yard can do by using shade-tolerant plants as underplanting for a rhododendron, mountain laurel and flowering dogwood background. His artistic combinations showed a selection of periwinkle, bugleweed and sweet alyssum in variety.

Also meriting honorable mention was a formal 1861 garden of blue, white and pink hyacinths and white tree azaleas, planted by Jack Elliott, Warrensville.

Hillside Setting on Stage

The stage setting executed this year by the Laisy Greenhouses, North Olmsted, was a wild garden scene, typical of the neighboring Chardon hills. Full-grown pines, willows, dogwood and birch trees framed the garden and complemented the falls and a pool. Wildflowers abounded, and spring bulbs were used along the front planting and the split-rail fence in the foreground. Large azaleas in the background were Kurume hybrids, not indigenous to the Ohio territory, but effective in the over-all picture. However the new hardy, white azalea, Desiree, developed by Anthony Shamarello, was used.

Wide aisles through the gardens and in front of the retail display areas and a big fountain which played among colored lights added to the main arena picture. Henry L. Pree, Cleveland landscape architect and garden writer, planned the over-all garden scene.

Two model homes were displayed in the lower Lakeside hall, one a superior ranch-type suburban house and the other a vacation home; both were appropriately landscaped.

A modest garden plot, 20x50 feet, of vegetables and flowers was a show



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Douglas Fir, blue 5 to 10 ins., T.	15.00
Colorado Blue Spruce 5 to 10 ins., T.	17.50
Canadian Hemlock 4-yr., 5 to 12 ins., T.	20.00

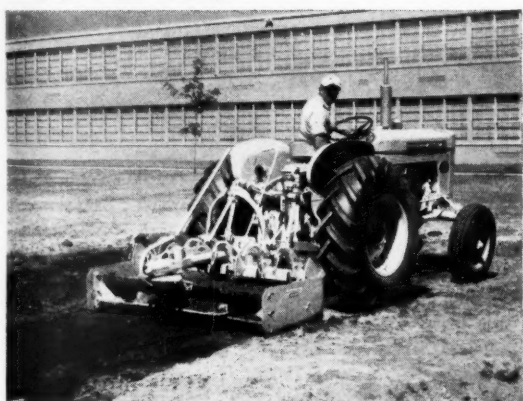
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T. browni, 18 to 24 ins.

T. henryi, 18 to 24 ins.

T. hatfieldi, 18 to 24 ins.

T. capitata, 16 to 20 ins. (Japanese Seed)

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BROOKFIELD GARDENS

U. S. Rt. 46

Delaware, N. J.

stopper in the upper Lakeside hall. This was an atomic garden, made up entirely of plant oddities which were the result of exposure to irradiation. In attendance was the man who irradiated and grew the plants in the atomic garden, Dr. Clarence J. Speas, president of Oak Ridge Atom Industries, Inc., Oak Ridge, Tenn. This is the only commercial organization licensed by the United States atomic energy commission to use atomic seed treatment and to make these seeds available to home gardeners for experimentation. The plants were either forced at Oak Ridge and brought to Cleveland in specially heated vans or were grown at Knuth Greenhouses, Euclid, O. In the garden were coleus, roses, chrysanthemums, corn, tomatoes, begonias, 26 flowering cherry trees, various flowering bulbs and other favorites of gardeners in the area. Several other plants, atomic energized by rays of cobalt 60, were spotted throughout the exhibition halls.

LOS ANGELES SHOW

Southern California's first large flower show in three years, the world flower and garden show, made its debut February 24 to March 5 at Pan Pacific Auditorium, Los Angeles. A privately sponsored commercial venture undertaken by Show Management, Inc., the project was enthusiastically received by the flower-loving public.

Much smaller than its famous predecessor, California international flower show, defunct since 1958, the world show attracted steady crowds on the opening week-end. Automobile traffic backed up over a mile during the first Sunday on the two approaches to Pan Pacific Auditorium, and it was hoped that over-all attendance for the 10-day run would justify expenditures such as \$50,000 in prizes offered to commercial exhibitors and the difficulties involved in staging a first show.

Home gardeners and flower lovers appeared delighted with the numerous landscaped gardens and the high quality of orchids, cut flowers and plant materials exhibited. Staging by Harry Macres, veteran florist and flower show manager, provided an attractive format with informal, free-form boundaries and wide walks which permitted exhibits to be viewed from many sides.

Exhibit Classes

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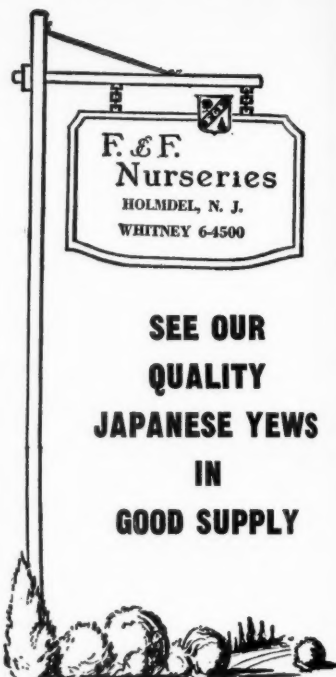
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BROWN BROS. CO.

East Rochester, N. Y.

Barberry, Green-Leaved

		Per 100	Per 1000
Well-branched, 2-yr., heavy, not transplanted			
1800	9 to 12 ins.	\$2.75	\$17.50
1150	12 to 15 ins.	3.25	20.00
120	15 to 18 ins.	3.75	

Barberry, Red-Leaved

		Per 100	Per 1000	Per 5000
Well-branched, 3-yr., not transplanted				
5600	6 to 12 ins.	\$3.00	\$25.00	\$100.00
7375	12 to 15 ins.	5.00	45.00	200.00
5000	15 to 18 ins.	6.00	55.00	250.00
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American Nurseryman Chicago 4

were grouped by sections in the main auditorium, with appropriate cut flower displays, bedding plants and garden club exhibits nearby.

Among landscaped exhibits there were 36 entries by landscape architects and contractors, nurserymen and garden designers. Of these, 13 displays occupied 1,000 square feet or more, four were in the 900 square foot size and the remaining 19 were smaller.

A clump of exotic, twisted palm trees, 18 feet high, with one trunk extending horizontally over a hillside garden designed by Henry Soto Nursery, was one of the spectacular features of the show. The exhibit won first prize of \$1,200. Winner of the \$1,000 second prize in this class, Tetley Nurseries, Corona, had an attractive garden also featuring palms and large foliage plants with a fountain.

Holland Bulb Co., Los Angeles, was awarded first prize, \$1,000, for a large tulip garden, arranged in color gradations against a Dutch windmill background. Dave Miller won second prize in this class. The famous Lambert tulips, grown by the late Paul Lambert, were displayed nearby and won first prize in the growers' class.

A 2,000 square foot exhibit in which specimen foliage plants and trees grown at the Los Angeles State and County Arboretum, Arcadia, were grouped about an 18-foot waterfall won the trophy for horticultural merit for the exhibitor, California Arboretum Foundation, Inc., Arcadia.

Japanese gardens and patios, ranging from replicas of ancient traditional tea gardens to modern adaptations, attracted interest of the public. In a class limited to Japanese designers, Dyo Bros., Pasadena, won first prize for a traditional garden with miniature bridges over garden pools and an ancient Japanese drinking fountain.

Frank's Nurseries & Flowers, West Los Angeles, second prize winner, had a real Japanese teahouse in a 1,000 square foot Oriental garden with flowering rhododendrons and azaleas among miniature pines and juniper.

Landscape architects also competed in classes for Oriental gardens suitable to the average homeowner, outdoor living areas, desert gardens and naturalistic gardens featuring camellias, azaleas, flowering bulbs or other materials. The use of lightweight volcanic rock in waterfall, pool and rock garden construction was noted throughout the show.

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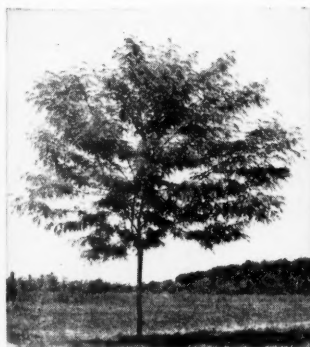


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Solving Home Landscape Problems

Reported by Edmond O. Moulin

Prof. Robert S. Reich, department of horticulture, Louisiana State University, Baton Rouge, offered solutions to several of the problems that frequently arise in the landscaping of residential properties in a talk delivered recently during landscape gardeners' day at the Ohio short course. (A full report of the short course appeared in the February 15 issue of the American Nurseryman.)

Dr. Reich first defined landscape architecture as the art of organizing outdoor space to provide maximum satisfaction for the people in these spaces. The remarks which Dr. Reich made concerning residential architecture he believes applicable to any other phase of landscape architecture.

The three elements of landscape architecture mentioned by Dr. Reich are space, earth and people. He emphasized that space is becoming ever more restricted and little is done to conserve it; however, conservation of space can be achieved by landscape architecture.

Dr. Reich said that as well as space, homeowners desire privacy, and the two factors may conflict if not given consideration. People want space, but if they have too much they do not maintain it. The answer to this dilemma, said Dr. Reich, is optimum space. To determine optimum space, the speaker suggested consideration of the requirements of the family, the size of the family and the number of boys in the family, since boys require more space than the same number of girls.

Subdivision Planning

In speaking about designing of small properties, Dr. Reich said if the frontage of the property lots is only 70 feet wide and the houses are 50 feet wide, it would be better to put the house nearer to one border of the property. This will result in a larger more versatile area on one side rather than two small 10-foot wide areas on both sides of the house. If the neighbors' house were also put on the common border line, so that there is a contact or near contact of the houses, this would be desirable, because the otherwise short distance between the two houses does not allow a pleasant view from the windows looking directly at a wall or into the neighbor's home.

Dr. Reich expressed his belief that

50 per cent of the space not covered by buildings is wasted. He said if people would get a landscape architect in at the beginning they would benefit. No one tries this until after the building has been placed on the lot; then the landscape architect must make the best use of the remaining space. Since space is to move in and not just to look at, it would be more desirable to allow the landscape architect to locate and arrange the spaces to be found around the building.

Dr. Reich emphasized that the landscape architect must remember that although there is an axis, it is used too frequently by artists as a crutch. He argued that the axis line should evolve from the design, not be the origin of the design.

Relating Indoor-Outdoor Space

Continuing with the element of space, Dr. Reich said a plan has to be organized, and the material placed according to plan; since space is being organized for human activity, there is a place to stop when

planting. Too frequently space is used as a place in which to collect things.

The need for relating indoor to outdoor space has been brought on by the new fishbowl-type architecture, Dr. Reich declared. He concluded that if nothing were put outdoors, then people passing by would be looking indoors. Man tries to relate his indoor and outdoor space in order to relate himself to his environment. Dr. Reich suggested that lines projecting from outside to inside can achieve this.

He urged caution that the projected beds of plants really accomplish what they are intended to do. In southern California and areas where the climate permits the use of the same plants outdoors as are used indoors, he has observed that the effect is achieved. However, in colder regions greater care must be taken, because when different types of plant material are required indoors than outdoors, the impression of continuity may be lost.

Once the building has been situ-

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Berberis triacanthophora (Three-Spined Barberry) Slender, arching branches. 12 to 18 ins., once transplanted	30.00	270.00
Chamaecyparis lawsoniana fletcheri (Fletcher Cypress) Slender conifer, soft plume foliage. 9 to 12 ins., once transplanted	24.00	216.00
Chamaecyparis lawsoniana grandis Dense, low, flat pyramid. 6 to 9 ins., once transplanted	20.00	180.00
Chamaecyparis lawsoniana minima glauca (Little Blue Cypress) Blue-green captivating midget. 6 to 9 ins., twice transplanted, specimens, B.R.	71.00
Chamaecyparis pisifera compacta Dense, bright green, striking, dwarf globe. 3 to 6 ins., once transplanted	17.00	153.00
Chamaecyparis pisifera compacta nana Extraordinary, globe-shaped dwarf. 6 to 9 ins., twice transplanted, B.R.	71.00
Chamaecyparis pisifera filifera nana aurea (Dwarf Golden Thread Cypress) A compact mass of golden filaments. 12 to 18 ins., twice transplanted, B.R.	30.00	270.00

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Cytisus praecox (Warminster Broom) Graceful shrub, flowers rich cream. 18 to 30 ins., once transplanted	24.00	216.00

	Per 100	Per 1000
Cytisus scoparius Burkwood Dark red flowers. 2 to 3 ft., once transplanted, B.R.	\$ 25.00	\$225.00
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4-yr., 8 to 10 ins., bushy	.75	.70
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3-yr., T., 10 to 12 ins.	.35	.30
Euonymus radicans vegetus		
2-yr., 10 to 15 ins., nice for canning	.50	.45
Hedera helix baltica (Baltic Ivy)		
2 1/4-in. rose pot	.25	.22
In flats	.18	.16
Juniperus chinensis hetzi		
1-yr., pot	.25	.22
2-yr., 6 to 10 ins.	.40	.35
Juniperus chinensis pfitzeriana		
1-yr., pot	.24	.22
2-yr., pot	.40	.35
Magnolia stellata		
8 to 12 ins., T., 4-in. pot	.80	.70
MALUS—1-yr., grafts		
Arnoldiana, pink	.35	.32
Atrosanguinea, pink	.35	.32
Dorothea, pink	.35	.32
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Marshall Oyama, upright	.40	.35
Micromalus, pink	.35	.32
Scheideckeri, pink	.35	.32
Picea pungens moerheimi		
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2-yr., 6 to 12 ins.	.10	.09
Taxus cuspidata		
2-yr., pot	.25	.22
3-yr., pot	.30	.28
4-yr., 10 to 12 ins.	.50	.45
5-yr., bushy, nice for canning	.55	.50

	Each	1000
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Taxus capitata		
2-yr., S.	\$0.07	\$0.06
3-yr., S., root-pruned	.14	.12
Taxus densiformis		
2-yr., pot	.30	.28
2-yr., T.	.30	.28
3-yr., T., heavy	.40	.36
6-yr., T., for canning	1.25	.95
Taxus hunnelliiana		
3-yr., T.	.40	.36
Taxus intermedia Sebian		
2-yr., pot	.30	.28
2-yr., T.	.30	.28
3-yr., T.	.40	.36
Taxus media andersoni		
2-yr., pot	.28	.25
3-yr., T.	.40	.36
Taxus media browni		
2-yr., pot	.30	.28
3-yr., T.	.40	.36
Taxus media Halloran		
2-yr., T.	.30	.28
3-yr., T.	.40	.36
Taxus media hatfieldi		
2-yr., pot	.30	.28
2-yr., T.	.30	.28
Taxus media henryi		
2-yr., pot	.30	.28
2-yr., T.	.30	.28
3-yr., T.	.40	.36
Taxus media hicksi		
2-yr., pot	.28	.25
4-yr., T., root-pruned	.50	.45
Taxus Moon's columnaris		
2-yr., T.	.30	.28
3-yr., T.	.40	.36
Taxus microphylla, an upright grower		
2-yr., pot	.28	.25
Thuja occidentalis nigra		
1-yr., pot	.25	.22
Thuja occidentalis pyramidalis		
1-yr., pot	.25	.22
Thuja occidentalis woodwardi		
2-yr., pot	.25	.22
Viburnum americanum		
2-yr., S., 6 to 12 ins.	.10	.09
Viburnum lentago		
2-yr., S., 1 1/2 to 2 ft.	.14	.12
2-yr., S., 2 to 3 ft.	.16	.14

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ated to conserve space, the next question is how to break space in an interesting manner. As the indoor rooms change, it is reasonable to assume that the outdoor rooms should be different, in order better to relate to the changed interior of the house. With a smaller lot size it is a problem to break space in an interesting manner and yet retain the impression of depth in space.

The answer expressed by Dr. Reich to the problem of space break-up is the use of baffle enclosures. Baffle enclosures, or open enclosures, as they might be called, allow continuity of space, yet offer necessary screening and privacy. Space flows under, over, around or through these enclosures. The baffle enclosure takes advantage of some views and excludes others.

Examples of baffle enclosures mentioned by Dr. Reich were louvered fences and walls, trees or shrubs placed or trimmed to achieve baffle and any material which allows space to flow yet affords space breakup. Baffle tends to give the feeling of greater space. One knows there is space beyond it, but one does not know how much there is; so imagination makes it larger than it really is.

Foundation Plantings

Remarking about the traditional foundation planting, Dr. Reich said that the style was set in the early days in New England when rocky foundations were used. This style is no longer necessary. Foundation plantings should connect the building to the landscape, but too frequently the building is subordinated. The use of the best quality plants near the house makes it difficult or impossible for the resident to appreciate these plants; furthermore, the excessive use of shrubs near the house provides a perfect haven for insect pests.

If the foundation is serving a purpose, Dr. Reich said he could see no reason why it should be hidden by plants, unless the area were used as a place to store junk. The contemporary treatment, as Dr. Reich expressed it, is the use of a foil plant (a plant of different qualities, which serves to adorn or set off another thing to advantage) which is used sparingly to accentuate the design.

Another substitute for the traditional foundation planting is lineal planting — projecting the building out into space. It is the use of planting or structural materials to pick up the line of the building and pull it out into space.

Dr. Reich said simplicity is an important point. Design may contain

many interesting elements with variety of contrasts, but people must be able to understand the design. Simplicity, said Dr. Reich, has contrast but a degree of unity and comprehensibility. Simplicity entails the use of fewer and less crowded plants to display the form, line, texture and color of the materials. When plants are used three and four deep, the character of the individual plant is lost.

THUJAS

[Continued from page 11]

foliage color throughout the entire year.

Thuja Plicata

Thuja plicata, the giant western arborvitae, is native from northern California to Alaska. It grows to 180 feet in height and is, of course, a most important source of lumber. It has been found that there are really two strains as far as hardiness is concerned. Plants grown on the Pacific coast yield seedlings hardy only in zone 6, while seeds collected from the high mountains of Montana and Utah yield seedlings hardy as far north as Boston, Mass., in zone 5. Actually, this is about the best of the tree arborvitae for ornamental use, chiefly because of its lustrous green foliage, which does not turn brown in the winter, as does that of most *T. occidentalis* varieties.

Several varieties (about 18) of this species have been named, chiefly in Europe, and until they have been given thorough trial in the eastern United States we shall not know the northern limits of their hardiness; i.e., whether they will be hardy only up to zone 6 or whether they can be successfully grown in zone 5.

However, the hardy strain of the species makes an excellent, vigorous, fast-growing, pyramidal tree in Massachusetts—one of the best if not the best of all the arborvitae for ornamental use. The lustrous dark green leaves turn a delightful bronze in the fall, maintaining that color throughout the entire season of winter.

The Japanese arborvitae, *T. standishi*, is a tree 40 feet tall, native in Japan and usually more spreading in habit than either of the arborvitae native in America. The foliage does not turn brown in the winter, but the foliage of *T. plicata* is better from an ornamental standpoint, at least in New England.

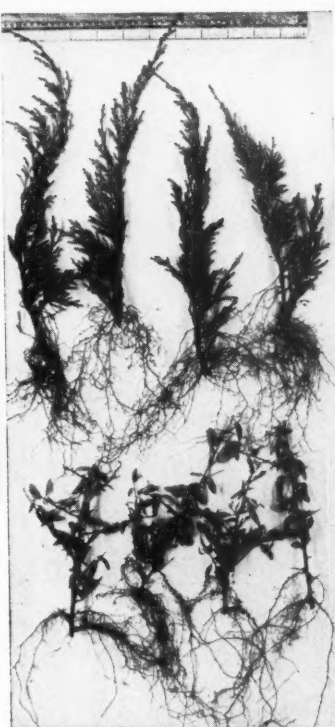
So, with these four thuja species and some 30 to 70 varieties among which to choose, plantmen can have a field day making selections. It is only fair to state that the names men-



Burk Juniper



Blue Hetz Juniper



Andorra Juniper (top) Pyracantha lalandi and Kasan (bottom)

	Each
Andorra Juniper, 6 to 8 ins.	\$0.05
Burk Juniper, 6 to 10 ins. ....	.12
Blue Hetz Juniper, 6 to 10 ins. ....	.05
Pfitzer Juniper, 6 to 10 ins. ....	.07
Pfitzer Juniper, 6 to 8 ins., bands ..	.16
Euonymus patens, small or medium-leaved, 8 to 10 ins. ....	.04
Forsythia Beatrix Farrand, 6 to 10 ins. ....	.05
Forsythia Lynwood Gold, 6 to 10 ins. ....	.04
Forsythia Spring Glory, 6 to 10 ins.04
Euonymus coloratus, 6 to 10 ins. ..	.04
Pyracantha Kasan, 5 to 6 ins.05
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Less than 300, total order.
2c more per plant.

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Recent import from Ireland. Full-flowered; deep golden color. Heavy, outdoor frame-rooted cuttings, approximately 1 ft.

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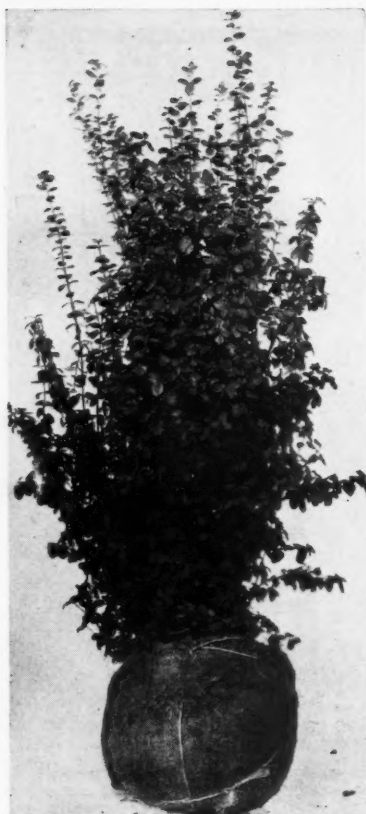
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Bare Root	Per 100	Per 1000
10 to 15 ins.	\$60.00	\$550.00
6 to 10 ins.	40.00	350.00
2-in. pots	22.00	200.00

Balled and Burlapped	Per 10	Per 100
3 to 3½ ft.	\$50.00	\$450.00
2½ to 3 ft.	42.50	375.00
2 to 2½ ft.	37.50	325.00
18 to 24 ins.	35.00	300.00
15 to 18 ins.	25.00	225.00
12 to 15 ins.	20.00	175.00

Write for 56-page price list.

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 "Your Wholesale Nurserymen"
 Ottawa, Kan.

tioned in this article are not all, by any manner of means. The fact is that one must draw a line somewhere between those plants that are known and those that are hazily described or merely mentioned by name as existing.

Recommended Arborvitae

T. occidentalis Booth Globe—Not necessarily globe-shaped, but low and compact, with large leaves, reportedly developing into a flat-topped globe, broader than tall.

T. occ. Compacta — Also called Parson's Compact arborvitae, named about 1850. One plant in the Arnold Arboretum in 1953 was three and one-half feet tall by three feet across and in 1960 it was six feet by five feet, pyramidal and dense.

T. occ. Compacta Erecta — Selected and named by Westminster Nurseries, Westminster, Md., in 1947, this is a semidwarf pyramidal plant. A 7-year-old plant was 47 feet tall.

T. occ. Douglas Pyramidal — A dense, pyramidal form, probably named about 1855, this is one of the best of the narrow pyramidal group. It is tall and vigorous growing.

T. occ. fastigiata—Branches short; narrowly upright, probably growing to about 25 feet tall.

T. occ. globosa—Years ago this was called Tom Thumb, but is now dignified with the name of globe arborvitae. Our 22-year-old plant at the Arnold Arboretum is five feet tall and seven feet across, still globose and dense, making a good specimen. In 1953, the plant was four feet by four feet.

T. occ. Globosa Nana — A plant acquired from the Boyce Thompson Institute 27 years ago and still only three feet tall and six feet across. In 1952 it was two feet by three feet, making it one of the smallest of these varieties.

T. occ. Hetz Midget—Selected by Fairview Nursery Co., Fairview, Pa., in the early 1930's, this has extremely slow growth. The habit is globe shaped, and 10-year-old plants are scarcely 12 to 15 inches tall.

T. occ. Hetz Junior—A selection made by Fairview Nursery Co., in the 1930's, of *T. occ. Ellwanger*. Our 18-year-old plant is only three feet tall but six feet across, dense and hardier than *T. occ. ericoides* which winterkills here after a few years. The foliage is all juvenile.

T. occ. Hovey — Another low globose form, named about 1859. Our 58-year-old plant is five feet high and 10 feet across. Because of its age, it is no longer globose, but mostly flat on top. Certainly it can be classed

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2. Black Spruce
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3. Woodward Globe
Arborvitae
12 to 18 ins., \$1.55
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with the slower-growing arborvitae.

T. occ. Little Champion—Selected and introduced in 1956 by the McConnell Nursery, Port Burwell, Ont., Canada. This nursery writes that it is "extremely hardy and finest of the globes" and they prefer this, under their conditions, to several other globes like globosa and Woodward.

T. occ. Lutea—Often termed the George Peabody arborvitae of years ago, this is the best of all the colored foliage forms in the Arnold Arboretum. It originated at Geneva, N. Y., before 1873; grows tall and pyramidal, and is one of the few of the many colored forms of the American arborvitae to keep its good color throughout the full growing season into the fall.

T. occ. Masters—A variety with a more columnar habit and darker and denser foliage than the species.

T. occ. nigra—An upright compact form, better than the older variety viridis because it is darker green and more compact.

T. occ. pumila—Named many years ago and called Little Gem. As the plants have shown a tendency to grow larger, however, the term Little Gem has been dropped. An 80-year-old plant in the arboretum is now a rounded pyramid, 10 feet tall and 12 feet across the base, but still very

NURSERY-GROWN SEEDLINGS

Pin Oak (*Quercus palustris*)

Red Oak (*Quercus borealis rubra*)

	Per 100	Per 1000		Per 100	Per 1000
9 to 12 ins., heavy	\$ 6.00	\$ 55.00	2 to 3 ft., heavy	\$12.00	\$140.00
12 to 18 ins., heavy	8.00	75.00	3 to 4 ft., lightly br.	22.00	190.00
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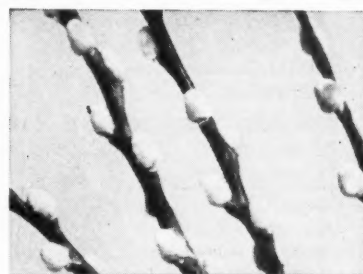
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Beautiful February-forcing strain. Catkin sheath is a rich mahogany red with attractive large silvery-pink catkins when mature.

	Per 100	Per 1000
18 to 24 ins.	\$30.00	\$250.00
24 to 36 ins.	35.00	300.00
Cutback Liners	12.00	100.00

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SPRING, 1961

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Juniper, Pfitzer, extra good

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PYRACANTHA COCCINEA LALANDI

Commonly known as Firethorn. Our stock is grown from heavily fruiting stocks. Shrubs carry huge clusters of holly-like berries all winter. One of the most desirable foundation shrubs in the trade.

Linera, 2-in. pots \$25.00 per 100;

\$225.00 per 1000.

Beardslee Nursery

Perry, O.

dense. Young plants are low and broad, often twice as broad as high, and make excellent ornamentals. The growth to the above-mentioned size is, of course, most unusual.

T. occ. Rheingold—First listed by Hesse Nurseries, in Germany, in 1910, this is cone shaped with bright yellow foliage, the leaves both juvenile and mature. It usually turns bronze in winter—a brighter colored form of *T. occidentalis Ellwangeriana Aurea*.

T. occ. Robusta—The Ware arborvitae, originally raised by Thomas Ware, Coventry, England, about 1850, grows into a low, dense pyramid of blue-green foliage. Our plant is 35 years old and eight feet tall. This is one of the hardiest forms and one of the last to discolor from winter burning.

T. occ. Rosenthal—The 50-year-old plant in the Arnold Arboretum is still only seven feet tall, so this variety grows slowly, but it is extremely dense and, of course, pyramidal in habit.

T. occ. Sherman—A sport of the Ware arborvitae, originating in the Sherman Nursery Co., Charles City, Ia., about 1920. Pyramidal in growth, this variety is claimed to be more winter hardy than *Robusta*, especially in areas of the north central United States. We have not had the opportunity of comparing it with other forms here at Boston.

T. occ. umbraculifera—With flat top, our 11-year-old plant is four feet by four feet, dense and rounded. It was named before 1891 and has been frequently termed globe shaped, which it is while young.

T. occ. Woodward—Named in 1871, this is a densely globose form which has a tendency to spread out with age. Our 72-year-old plant is eight feet tall and 18 feet across, but still dense and globose. This is a popular variety.

T. orientalis argenteo-variegata—Young shoots are creamy white.

T. or. aurea—Said to be one of the most popular forms in Japanese gardens; globose, low, compact; yellow foliage in the spring and through most of the summer. The foliage is dense, but arranged in vertical planes.

T. or. Baker—Pale green foliage, used especially in hot, dry situations.

T. or. Berckmans—Grows to about five feet and retains its attractive golden-yellow foliage a greater part of the time. Sometimes incorrectly listed as *T. orientalis aurea nana*.

T. or. Beverly Hills—Often termed *Beverlyensis*; one of the most popular types on the Pacific coast; columnar to pyramidal, with tips of

**TAXUS HICKSI**

4 to 6 ins.....	30c	27c	24c	20c
6 to 8 ins.....	40c	36c	32c	28c

**HEAVY 4 and 5-YEAR STOCK**

These husky liners are all grown in our open field beds as pictured above. Our sandy loam soils produce a fine root system. All stock is well spaced and sheared to produce good bushy plants and is twice transplanted.

All prices include packing and boxing.

Prices quoted are per each on the following quantities:

25 to 100; 100 to 250; 250 to 500; 500 to 1000

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AND HERE ARE SOME EQUALLY GOOD 2-YR. LINERS

- **JUNIPER**—Hetzi and Pfitzer
- **TAXUS**—Cuspidata, Hatfieldi, Hicksi and Browni
- **ARBORVITAE**—Pyramidal, Dark Green

	25 to 100	100 to 250	250 to 500	500 to 1000
6 to 8 ins. EACH	20c	18c	16c	14c

**TAXUS CUSPIDATA**

4 to 6 ins.....	30c	27c	24c	20c
6 to 8 ins.....	40c	36c	32c	28c
8 to 10 ins.....	50c	46c	42c	38c

**JUNIPER HETZI and PFITZER**

6 to 8 ins....	27c	24c	..	..
8 to 10 ins....	37c	33c	29c	25c
10 to 12 ins....	47c	43c	39c	35c
12 to 15 ins....	57c	53c	49c	45c

4 AND 5-YR. STOCK ALSO AVAILABLE

Taxus browni				
8 to 10 ins.....	50c	46c	42c	...
Taxus intermedia				
4 to 6 ins.....	32c	29c	26c	...



P. O. Box 1747, Milwaukee 1, Wis.

branchlets golden yellow, often throughout the year.

T. or. Blue Spire—Sometimes listed as howardi or Howard's Blue Spire, this originated in one of the Howard's Nurseries, Austin, Tex. It is pyramidal in habit, with bluish foliage.

T. or. Bonita—Bright green foliage; slow in growth; rounded or conelike in general habit; leaves have some yellow at tips; grows to about three feet high.

T. or. conspicua—Tips of the foliage are bright yellow in May but turn

to green by early summer. This is a compact, fastigate variety for formal garden use.

T. or. elegantissima—A low, columnar form; bright yellow foliage in the spring turning to yellowish green by summer; 12 to 15 feet.

T. or. globosa—Of globose shape.

T. or. Goodwin—Said to have originated in a block of arborvitae at the Goodwin Nursery, Kingfisher, Okla., this plant is reported better than Excelsa by some growers. It is just as hardy, but more compact and

is reported to hold its green color throughout the winter, not turning brown as does Excelsa. It is also reported hardier than Baker, purportedly withstanding temperatures 12 degrees lower than Baker's hardiness limit.

T. or. gracilis—A slender pyramidal form.

T. or. Rochester—Original plants are supposed to be those selected by the former B. H. Slavin, of the Rochester parks, Rochester, N. Y. These were trees similar to the species, but

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PIN OAK

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	Specimen	
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were hardier than other *T. orientalis* clones and hardy at Rochester. Apparently they are also hardy at Ames, Ia.

T. or. Rosedale—Dwarf, subglobose form with juvenile foliage.

T. or. sieboldi—Globe shaped to conical, compact and low; popular in southern states; sometimes listed as *T. orientalis compacta*.

T. or. stricta—Pyramidal; bright green foliage; listed by L. H. Bailey as one of the tallest and hardiest varieties.

T. plicata, giant western arbovitae—Especially when grown from seeds collected in the mountains of Utah and Montana, this Pacific coast native yields some of the best, lustre-leaved ornamental specimens for northern gardens in zones 5 and 6. Vigorous and fast growing to a height of 180 feet; the foliage turns a beautiful bronze in the fall and retains that color all winter.

T. standishi—A handsome tree, reaching a height of 40 feet; more spreading in habit than other arbovitae species; native to Japan and hardy in zone 5.

Need Trial

The following are plants needing further trial or names in catalogs without full descriptions:

- occidentalis aureo-spicata — Listed by Herm. A. Hesse Nurseries, Germany.
- occ. Brubaker—Noted for having "heavy, coarse foliage, upright grower."
- occ. conspicua—Listed by Reginald Kaye, Ltd., England.
- occ. froebeli—Listed by Herm. A. Hesse Nursery.
- occ. gracilis—Listed by Herm. A. Hesse Nursery.
- occ. Hetz Winter Green—Sounds good, but further trial is needed, in our area at least.
- occ. lycopodoides—Listed by Herm. A. Hesse Nursery.
- occ. malonyana—Listed by Herm. A. Hesse Nursery.
- occ. Martini—Little information about this available except that it is "broad at base, tapering at top, comes from western Maryland from a Mr. Martin."
- occ. Pyramidalis Compacta—Listed by Felix & Dykhuis, Boskoop, Holland. Undoubtedly many a plant in America, sold merely under the species name, could be similar.
- occ. Robusta Lutescens—Listed by Hillier & Sons, England.
- occ. versmanni—Listed by Herm. A. Hesse Nursery.
- occ. virescens—Listed by W. Fromow & Sons Nursery, Holland.
- occ. Washington Aurea—Selected by Doty & Doerner, Inc., Portland, Ore., from Hood canal area in Washington, claimed to have a brighter yellow color in this area than some of the other variegated varieties.
- orientalis Aurea Nana—Listed by Monrovia Nursery Co., Azusa, Calif.
- or. Blucone—Apparently was originated with Blue Spire at Howard's Nursery, Austin, Tex., but no specific information yet available.

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- COOLING SHADE
- RAPID GROWTH
- EASE OF MAINTENANCE
- HARDINESS

Truly one of America's finest shade trees. Proved by more than 30 years of careful observation under various conditions.

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Redmond Linden planted 7 years ago.

Wholesale Prices for Spring, 1961
F.O.B. Fremont, Neb.

	Per 10	Per 100
3-yr., 2 to 2 1/2-in. cal....	\$70.00	\$650.00
2-yr., 8 to 9 ft.....	35.00	325.00
2-yr., 7 to 8 ft.....	30.00	275.00
2-yr., 6 to 7 ft.....	25.00	225.00
2-yr., 5 to 6 ft.....	22.50	200.00

Terms: Per our published list.

- or. Burton—No information available.
or. columnaris—Listed by Sherwood Nursery Co., Corbett, Ore.
or. decussata—Listed by Hillier & Sons.
or. Fruitland—Listed by Fruitland Nurseries, Augusta, Ga.
or. Golden Ball—Listed by Monrovia Nursery Co.
or. hillieri—Listed by Hillier & Sons.
or. Holman—The Arnold Arboretum obtained a plant of this variety 10 years ago from a source in Missouri. The plant has proved hardy, has been vigorous, is pyramidal in habit and six feet tall by six feet wide at base.
or. Minima Glauca—Listed by Hillier & Sons.
or. Nana Compacta—Listed by Ansaloni Nursery, Bologna, Italy.
or. Nana Semperaeurescens—Listed by Ansaloni Nursery.
or. Raffles—Listed by Monrovia Nursery Co.
or. semperaeurescens—Named by Waterer in 1878, grown only by one or two nurseries in the United States, this is supposed to be dwarf, globose with golden-yellow foliage, remaining in good color all year, according to L. H. Bailey. No live plants have been observed for me to check this statement.
or. Zebeby—No specific information.
plicata atrovirens—Brian O. Mulligan, of the University of Washington Arboretum, writes that this is a distinct form with foliage of a darker color (at least while young) and more compact and narrow pyramidal in form than the species. It should be further tested for specific hardiness.
p. aureo-variegata—Listed by Herm. A. Hesse Nursery Co.

[Continued on page 76]

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Quality Rooted Cuttings

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TAXUS HICKSI

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Our own specially selected conifer, one we feel to be the best in a long time. An upright pyramidal habit of growth compactly covered with foliage of a dark rich green; very hardy.



Juniperus chinensis 'MINT JULEP' (T.M.R.) Zone 3

A lovely introduction by MN having a semi-spreading habit with an appealing arching to the branches. Rich green foliage covers the compact branching habit of this wonderful grower.



Juniperus occidentalis 'SIERRA SILVER' Zone 5

Our selection from the original Sierra junipers. From its origin we know its hardiness and its ruggedness. A pyramidal habit that has an artistic twist to the branches produces a plant of beauty — bold foliage of silver-blue adds to this interesting conifer.

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Juniperus scopulorum 'GRAY GLEAM'
(Patent No. 848)

Zone 4

Extra fine juniper of extremely slow growth with a natural compact habit. Develops into a very symmetrical columnar juniper with attractive gray-blue foliage that deepens in intensity with the winter sun and cold. Very hardy.



Juniperus sabina 'ARCADIA'

Zone 3

A superior strain that has proven one of the best throughout the country. A graceful spreading habit of growth covered with a glowing green foliage having a lacy texture. Considered by the nursery industry as one of the best introductions of the past decade.

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Juniperus sabina 'SKANDIA'

Zone 2

Where a low growing show-piece is desired here is an excellent choice. Rich green attractive foliage is found on this low spreading juniper.

Cuttings and scions for our plants are taken from tested and selected superior stock grown for its trueness of quality, color, and ability to perform.

MONROVIA NURSERY Co.

P.O. BOX Q, AZUSA, CALIFORNIA



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Use the best and heaviest liners you can find—like these heavy transplants.

	Each rate	Each 1000 rate
COTONEASTER	100	1000
DIVARICATA		
2-yr., heavy, T. . . .	\$0.30	\$0.25
COTONEASTER		
WARDI		
2-yr., heavy, T. . . .	.30	.25
3-yr., heavy, T. . . .	.40	.35
EUONYMUS		
ALATUS		
COMPACTUS		
4-yr., T.,		
10 to 15 ins. . . .	.45	.40
EUONYMUS		
RADICANS		
ERECTUS		
3-yr., T.,		
12 to 15 ins. . . .	.45	.40
EUONYMUS		
SARCOXIE		
3-yr., T.,		
12 to 15 ins. . . .	.50	.45
PYRACANTHA		
RUNYANI		
2-yr., pot . . . . .	.22	.20
TAXUS		
COLUMNARIS		
ADAMS		
5-yr., TT. . . . .	.70	.65
TAXUS CUSPIDATA		
5-yr., heavy, T. . . .	.75	.70
THUJA		
OCCIDENTALIS		
WOODWARDI		
3-yr., T.45	.40
THUJA		
ORIENTALIS		
AUREA NANA		
3-yr., TT.,		
12 to 15 ins.50	.45

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PIN OAK SEEDLINGS

Quercus palustris

	Per 100	Per 1000
6 to 12 ins.	\$ 6.00	\$ 55.00
12 to 18 ins.	8.00	75.00
18 to 24 ins.	12.00	100.00
2 to 3 ft.	17.00	140.00

LEAVENWORTH NURSERIES

L. C. Gatewood Betty Gatewood
12th and Vilas Leavenworth, Kan.

ORNAMENTAL CRAB APPLES,

by A. F. den Boer. 226 p., illus. (1959). \$4.95.
American Nurseryman Chicago 4, Ill.

- p. *aurescens*—Listed by Herm. A. Hesse Nursery Co.
- p. *Collier's Gold*—Reportedly differs little from *Cuprea*.
- p. *Cuprea*—A dwarf, bronzy-gold form listed by F. J. Grootendorst & Sons, Boskoop, Holland, but may be hardy only into zone 6.
- p. *Dura*—A new variety offered by J. Timm & Co., Germany.
- p. *Euchlora*—A new variety offered by J. Timm & Co.
- p. *fastigiata*—The plant in the Arnold Arboretum is only six feet tall but is wide at the base. This will have to be further tested for hardiness in zone 5.
- p. *gracilis*—Noted as having a "finer spray with smaller leaves." No living specimens observed.
- p. *Hillier*—An irregular bushy form, named and selected by Hillier & Sons Nursery about 1900. It is slow-growing, a 35-year-old plant being reported as six feet tall and eight feet wide. A 15-year-old plant was reported four feet by four feet. The exact hardiness of this variety is in doubt. The Arnold Arboretum has lost small plants on several occasions, and it may be it is hardy only in zone 6. However, since all *T. plicata* varieties retain the green color of their foliage all winter, it is still important to try this variety further.
- p. *Rogers*—A dwarf pyramidal form with golden and bronze foliage, originally raised by the W. H. Rogers Nurseries, in England. An 8-year-old plant was reported to be densely conical in habit, 33 inches high and 19 inches across. Worthy of special trial for hardiness.
- p. *semperaurea*—The young leaves of this variety are supposed to be golden yellow, becoming bronze yellow in winter. Further trial needed.
- p. *Stoneham's Gold*—William T. Gotelli, South Orange, N. J., states that this variety may prove a better ornamental than either variety *Cuprea* or *Collier's Gold*, both of which it resembles.

Thujas Not Recommended

(including some synonyms)

- A—differs little from species.
- B—no better than recommended varieties.
- C—no ornamental value.

koraensis B.

occidentalis Alba—Of the whites this is best; originated about 1875; often termed Queen Victoria arborvitae; the young branches, tipped white, are not outstanding.

occ. albo-spicata B.

occ. albo-variegata B.

occ. atrovirens—Probably a synonym of *T. occ. nigra*.

occ. aurea—Does not hold yellow foliage color after late June.

occ. aureo-variegata—A pyramidal type with leaves variegated a dull yellow. Said to hold its color throughout the winter in Oregon.

occ. Bodmer C.

occ. Buchanan C—A narrow pyramidal form with thin branchlets and fine leaves. Actually the leaves are too small to give a good effect.

occ. Burrows—Leaves yellow, little ornamental value.

occ. Cloth of Gold—Foliage only yellowish green in summer.

occ. Columbia—Variegation of light silver color does not last long after June. Color is normal green by early summer.

occ. columnaris—Synonym for *T. occ. fastigiata*.

occ. Conica Densa—Listed name but no description given.

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HONEY LOCUST, up to 3½-in. cal.
NORWAY MAPLE, up to 5-in. cal.
CRIMSON KING MAPLE, up to 3-in. cal.

MOLINE ELM, up to 4-in. cal.

TREE COCKSPUR HAWTHORN, up to 7 ft.

WASHINGTON HAWTHORN, up to 8 ft.

ASSORTED FLOWERING CRAB

APPLE, up to 3-in. cal.

EUONYMUS ALATUS AND **COMPACTUS**, up to 4 ft.

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4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

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2 to 2½-in. cal., 2½ to 3-in. cal.,
3 to 3½-in. cal.

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950 18 to 24 ins.30

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Very dwarf, dense shrub good in hot and dry places.

250 12 to 18 ins.20

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Glossy green-leaved, black-berried cotoneaster good for specimen, hedge or screen.

1500 2 to 3 ft., hedge30

1500 18 to 24 ins. shrub25

4000 2 to 3 ft., shrub35

3500 3 to 4 ft., shrub45

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2000 18 to 24 ins.30

2000 2 to 3 ft.30

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400 12 to 18 ins.20

400 18 to 24 ins.28

500 2 to 3 ft.35

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Heavy landscape specimen plants.

80 3 to 4 ft.70

70 4 to 5 ft.90

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Hansen Improved bush cherry, transplanted.

600 2 to 3 ft.25

1200 3 to 4 ft.35

135 4 to 5 ft.50

This is all in storage ready to ship.

DYBVIG NURSERY

Colton, S. D.

- occ. cristata—Dwarf, crowded branchlets.
occ. densiformis B.
occ. Douglas Golden—Leaves a bronzy yellow, not a clear golden yellow like variety lutea.
occ. Dumosa—Living plants in America unknown; dwarf, dense form.
occ. elegantissima—Synonym for T. occ. lutea.
occ. Ellwangeriana—A low form with ornamental value, having two kinds of foliage.
occ. Ellwangeriana Aurea—Very dwarf, juvenile foliage; our 16-year-old plant is only eight inches by 12 inches. It is a slow-growing, compact pyramid of yellow foliage; older plants will produce mature foliage. The variety Rheingold is an improved form.
occ. Erecta—Our plant of this name came from Herm. A. Hesse Nursery in 1910. It is no better than T. occidentalis Douglas Pyramidal.
occ. ericoides—The heath retinospora is a dwarf, bushy shrub, with all adolescent (i.e., needlelike) foliage. Its main characteristic is that it turns purple bronze in the fall, but under our conditions actually turns brown in the winter and never seems to remain in good condition for more than a year or two.
occ. filicioides—Narrow, pyramidal evergreen with pinnately arranged branches. Chamaecyparis obtusa filicioides is better.
occ. filiformis C—Somewhat like Chamaecyparis pisifera filifera, with long slender branches.
occ. Gapensis—Living plants in America unknown.
occ. hancei—A 56-year-old plant in the Arnold Arboretum is 24 feet tall, upright and pyramidal in habit, but not unusually different or better than recommended varieties.
occ. Holmstrup B.
occ. Hoopes B—A broadly pyramidal or dome-shaped form, sometimes confused with umbraculifera.
occ. hudsonica—A globe-shaped variety; our 32-year-old plant is six feet tall and eight feet across. It is dense but no better than globosa, unless it may be hardier.
occ. Intermedia B.
occ. Lutescens—Termed a "yellow-leaved" form of T. occ. Robusta, our 50-year-old plant is mostly green by July and in the fall shows only an extremely small amount of leaf color variation.
occ. magnifica (synonym theodonensis)—Of vigorous, upright habit with broad branchlets and dark green foliage, but apparently not popular.
occ. nana—Frequently listed as a dwarf and compact type, but undoubtedly confused with varieties globosa and pumila.
occ. Ohlendorf—Named in 1887, this is a dwarf, yet bushy and irregular in habit, often with two kinds of leaves. It is too slow in growth to be of much value.
occ. pendula C—Named in 1888, branches pendulous.
occ. pulcherrima C.
occ. pygmaea—Probably a synonym for T. occ. pumila.
occ. pyramidalis—Synonym for T. occ. fastigiata.
occ. Recurva—A 50-year-old plant is 30 feet tall, pyramidal and dense, but has not developed into any better a plant than the pyramidal recommended varieties; it is slower growing than T. occ. Douglas Pyramidal and might have merit for that reason only.
occ. Recurva Nana—A dwarf globe to

QUALITY SEEDLINGS • TRANSPLANTED LINERS

Spring, 1961

	50 or more per 100	500 or more per 1000	5000 or more per 1000
Taxus cuspidata capitata (Upright Yew), seed-grown			
X, 10 to 14 ins.	\$30.00	...	...
X, 6 to 10 ins.	22.50	\$165.00	\$150.00
(3-0), 4 to 8 ins.	9.00	75.00	65.00
Taxus, 3-yr., T.			
Media hicksi, 10 to 12 ins.	45.00	400.00	...
Media browni, 6 to 8 ins.	45.00	400.00	...
Densiformis, 6 to 8 ins.	45.00	400.00	...
Pfitzer Juniper			
X, 8 to 10 ins.	35.00	...	...
Colorado Blue Spruce			
XX, 10 to 15 ins.	65.00	600.00	...
X, 10 to 14 ins.	18.00	135.00	125.00
X, 6 to 10 ins.	12.00	90.00	85.00
(3-1), 6 to 12 ins.	10.00	65.00	60.00
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.50	32.00	30.00
White Spruce			
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Black Hills Spruce			
(3-1), 5 to 10 ins.	10.00	60.00	...
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Norway Spruce			
X, 8 to 12 ins.	12.00	90.00	85.00
(3-1), 6 to 12 ins.	10.00	65.00	60.00
(3-0), 3 to 6 ins.	6.00	24.00	22.00
(3-0), 6 to 10 ins.	7.00	30.00	28.00
Ponderosa Pine			
X, 12 to 15 ins.	10.00	60.00	...
X, 8 to 12 ins.	8.00	45.00	40.00
Austrian Pine			
X, 10 to 15 ins.	10.00	55.00	...
X, 6 to 10 ins.	8.00	40.00	38.00
Scotch Pine, Auvergne			
XX, 15 to 18 ins.	40.00	...	...
(2-1), 3 to 6 ins.	8.00	32.00	28.00
(3-0), 10 to 16 ins.	6.00	26.00	22.00
(3-0), 6 to 16 ins.	6.00	23.00	19.00
(3-0), 6 to 10 ins.	6.00	20.00	16.00
Douglas Fir (Taxifolia glauca)			
(2-1), 5 to 10 ins.	8.00	35.00	32.50
(3-0), 8 to 12 ins.	8.00	35.00	32.50
(3-0), 4 to 12 ins.	7.00	30.00	27.50
(3-0), 4 to 8 ins.	6.00	27.50	25.00

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GOLDEN VICARY PRIVET LINERS

Lovely, solid, golden-leaved variety. Extremely adaptable for a striking border. Retains full golden color from spring to fall. Beautiful for rosebed borders. Should have full sun.

Per 10 Per 100 Per 1000

Liners in 2-in.

pots\$2.00 \$18.00 \$150.00
Rooted cuttings ... 10.00 80.00

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NORTHERN-GROWN STOCK

Strict Grading — Well Packed
Satisfaction Guaranteed
There may be as good — none better.

TRANSPLANTS

3-yr., 2	Per 100	Per 1000
Colorado Blue Spruce		
8 to 10 ins.	\$18.00	\$140.00
6 to 8 ins.	15.00	110.00
4 to 6 ins.	12.00	90.00
Black Hills Spruce		
8 to 10 ins.	18.00	140.00
6 to 8 ins.	15.00	110.00
4 to 6 ins.	12.00	90.00
Norway Spruce		
12 to 18 ins.	15.00	130.00
10 to 12 ins.	12.00	100.00
8 to 10 ins.	10.00	80.00
Grafting grade, 5/16 to 1/4-in. cal.	10.00	75.00
American Arborvitae		
15 to 18 ins.	18.00	150.00
12 to 15 ins.	15.00	100.00
8 to 12 ins.	10.00	80.00

SEEDLINGS

3-yr.		
White Pine		
6 to 10 ins.	5.00	30.00
3 to 6 ins.	4.00	25.00
Scotch Pine, French		
10 to 14 ins.	5.00	27.50
6 to 10 ins.	4.00	22.50
Austrian Pine		
8 to 10 ins.	6.00	40.00
6 to 8 ins.	5.00	30.00
Douglas Fir, taxifolia glauca		
6 to 10 ins.	5.00	30.00
Black Hills Spruce		
6 to 8 ins.	4.00	35.00
3 to 6 ins.	3.00	25.00
Colorado Blue Spruce		
6 to 8 ins.	4.50	35.00
4 to 6 ins.	4.00	27.50
Norway Spruce		
6 to 10 ins.	4.00	25.00
4 to 6 ins.	3.00	18.00
American Arborvitae		
6 to 10 ins.	4.00	35.00
4 to 6 ins.	3.00	25.00

Write for special prices on 2-yr. seedlings, also prices on large orders of 3-yr. seedlings.

J. R. PALMER & SON
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ILEX MENTOR GLOSSY

Not Patented

Growth habit is vigorous, spreading and upright, foliage is glossy dark green with a brilliant luster, harder than Ilex convexa in the Detroit and Cleveland area winters of 1959-60 and 1960-61.

Lining-out, from beds
2-yr., 6 to 9 ins., 45c each per 100
Available from:

GERARD K. KLYN NURSERY
Mentor, Ohio

LINING-OUT and FIELD-GROWN

2-yr., 6 to 9 ins., 45c each per 100	Each	Each
3-yr., 9 to 12 ins., 75c each per 100	Per 10	Per 100
12 to 15 ins., B&B.....	\$2.00	\$1.75
15 to 18 ins., B&B.....	2.50	2.25
18 to 24 ins., B&B.....	3.00	2.75

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For the finest in

NURSERY-GROWN SEEDLINGS

Write —
Forrest Keeling
Nursery
Elsberry, Mo.
Hugh Stevenson, Prop.

MISSOURI GROWN IS HARDY

conical type with recurved branchlets twisted at the tips. One specimen is three feet broad at the base and six feet high. It has never proved a popular commercial type.

occ. *Recurvata*—A 50-year-old plant in the Arnold Arboretum, 30 feet tall, does not seem to be much different from *Recurva*.

occ. *Reeves B*—Nothing unusual about this variety; our 19-year-old plant is seven feet tall.

occ. *Reid B*—Named before 1871, our 19-year-old globe-shaped plant is seven feet by seven feet, dense and a rounded pyramidal shape.

occ. *Rivers C*—Named before 1879 for Thomas Rivers, famous English nurseryman; supposed to have a compact pyramidal habit with yellowish-green leaves, but our plant has never been an outstanding ornamental.

occ. *semper aurea*—Supposedly the leaves are "golden yellow," but the one nursery offering this variety claims that it does not keep its yellow foliage color after the first few weeks. However, it is noted that this is a vigorous grower, doing well in almost any location, sun or shade.

occ. *Smith*—Living plants in America unknown; a low, compact, pyramidal form, reported to turn purplish in the fall.

occ. *spaehti*—Synonym for T. occ. *Ohlen-dorf*.

occ. *spiralis*—Most nurseries grow this and know it as a pyramidal, upright, fairly dense specimen. The small branches are arranged spirally on the older branches, thus giving rise to the name. However, in my experience, although the plant may look well while young, it does not grow old gracefully, the reason it is being relegated to this list.

occ. *stricta*—Synonym for T. occ. *fastigiata*.

occ. *theodoniensis*—Synonym for T. occ. *magnifica*.

occ. *variegata B*—Branchlets variegated with white.

occ. *Vervane B*—Although a form introduced before 1862 at Ghent, Belgium, the yellowish foliage and supposedly bronze winter foliage of this variety have not proved outstanding.

occ. *viridis B*—The variety *nigra* is better.

occ. *Wagner B*—Globose form to about five feet.

occ. *Waxen B*—Foliage only yellowish green in summer.

occ. *Westminster*—Probably a synonym for what is being offered as T. occ. *Compacta Erecta*; the Westminster Nurseries, Westminster, Md., first offered this new variety in 1947 and continue to offer it under the name of *Compacta Erecta*. It is more than likely that this plant was called Westminster by another nursery. In any event, the name Westminster should not be used.

orientalis argenteo-variegata — Tips of young growth creamy white.

or. *Brewers*—The Arnold Arboretum has grown a plant under this name for 10 years, obtained from the Inter-State Nurseries, Hamburg, Ia., and originally from the Sherman Nurseries, Sherman, Tex. It has not proved reliably hardy, nor is it a good ornamental in either Iowa or Massachusetts.

or. *compacta*—Synonym of T. or. *sieboldi*.

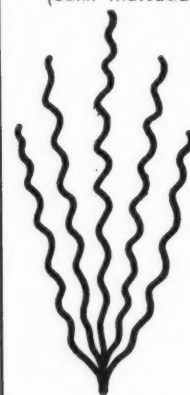
or. *Decussata*—Dwarf, globe-shaped, juvenile foliage turning brown in winter.

or. *Excelsa*—Reported to be as hardy as

CHINESE CORKSCREW TREE

唐人咕士路

(*Salix matsudana tortuosa*)



Oriental Horticultural Curiosity

From the Hupeh Province of east central China. Branches both large and small grow upward with an exotic corkscrew twist.

This tree is also known in common parlance as Corkscrew Tree, Corkscrew Willow or Contorted Hankow Willow.

	Per Each	Per Dozen
4 to 5 ft.	\$2.50	\$25.00
6 to 8 ft.	3.50	35.00
8 to 10 ft. This size for nursery pick-up only	5.00	50.00
Heavy field liners, \$30.00 per 100; \$250.00 per 1000.		
Pot plant liners (spring only), \$30.00 per 100; \$250.00 per 1000.		

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Wholesale Growers
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French Lilacs

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Euonymus Fortunei

Pfitzer Junipers

Write for List

QUALITY NURSERY STOCK — SPRING, 1961

Ash, Green

Prunus triloba, own root and buds

Ash, Mountain

Lilac, rothomagensis

Birch, White

Philadelphus Minnesota Snowflake

Crab Apple, Almey

Potentilla fruticosa

Crab Apple, Hopa

Spiraea Anthony Waterer

Maple, Norway

Viburnum opulus sterile

Send for complete list.

J. V. BAILEY NURSERIES

1325 Bailey Rd.

St. Paul 19, Minn.

Goodwin but not so compact. Turns brown in winter, while Goodwin is reported to remain green.

or. flagelliformis—Branches pendulous.

or. funiculata B.

or. howardi—Synonym for Blue Spire.

or. juniperoides B.

or. Kallay Gold—One American nursery that offered this has discontinued it because it proved unsatisfactory.

or. Melden—Columnar or pyramidal, irregular growth, juvenile foliage, leaves bluish green.

or. nana—Synonym of T. or. sieboldi.

or. pendula C—Possibly identical with variety flagelliformis.

or. tatarica—Synonym of T. or. stricta.

or. Tibbs B—Rather open in habit, but noted by one grower in Tennessee as withstanding winter temperatures to —10 degrees.

plicata elegantissima—Plants I have seen under this name appear identical with the variety atrovirens.

p. pendula C.

p. pyramidalis—Synonym of T. p. fastigiatata.

p. variegata—Similar to the variety zebrina.

p. zebrina C—Leaves a peculiar mixture of yellow and green on the current year's growth.

LARGE-SCALE planting of roses at Cape Girardeau, Mo., in recent years, which has brought local fame to the area, was told in the Reader's Digest for March in an illustrated article, "A Rose for Cape Girardeau," of which Daniel Longwell was the author.

EVERGREEN FARM NURSERY

Scotch Pine

French Green, Scotch Highland, East Anglia

	Per 100	Per 1000	10,000 Per 1000	100,000 Per 1000
(2-0), 2 to 4 ins.	\$3.00	\$11.00	\$10.00	\$ 8.00
(2-0), 3 to 6 ins.	3.50	16.00	15.00	12.50
(2-0), 4 to 8 ins.	4.00	20.00	18.00	15.00
(3-0), 7 to 14 ins.	4.50	21.00	20.00	17.50

Austrian Pine

(2-0), 3 to 6 ins.	3.50	13.00	12.00	....
(3-0), 4 to 10 ins.	4.50	20.00	18.00	....

SPECIAL OFFER:

French Green or East Anglia

(4-0), 10 to 20 ins., \$12.00 per 1000

No shipping. Sold at nursery only.

Write for Price List on:

Norway Spruce - Colorado Blue Spruce

Black Spruce - White Spruce - Douglas Fir

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Fennville, Mich.

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Nursery located 1 mile north of intersection of M89 and U. S. 31 and 1/2 mile west on 126th Ave.

PLANT NOTES HERE AND THERE

By C. W. Wood

Clematis Macropetala

It takes no ardent argument to convince me that the large-flowered clematis hybrids are among the most spectacular of hardy vines, and I guess it would not be difficult to convince me they are among the most beautiful, but all that does not blind me to the fact that nurserymen make a big mistake when they ignore some of the species and put all their attention on the hybrids.

For instance, much is missed when the downy clematis, *C. macropetala*, a native of northern China and Siberia, is overlooked. It is a close relative of the far better known *C. alpina*, whose 5-foot (more or less) growths are a joy throughout the open season, being clothed in deeply toothed leaves. The way I grew it from seeds, the plants were somewhat variable—variable in height of plant, size of flower and color of flower. It is safe, I think, to say that the flowers are ordinarily about three inches across and are a lovely lavender shade, blooming for two months, commencing about mid-May. There is a variety, *markhami*, mentioned in English lists with clear pink flowers that should be worth having.

It was perfectly hardy in my trials, as one would expect from its northern origin, and was easy to grow under ordinary clematis conditions. These include a good garden soil, preferably enriched with well-rotted manure and sweetened with a little lime.

Daphne Genkwa

Answering a Kentucky reader: The Asiatic (China) *daphne*, *D. genkwa*, is not reliably hardy in northern Michigan, but should be fully hardy in Kentucky. It is reported to be hardy in New York and I have seen mature specimens along the Ohio river in southwestern Ohio. It is not a spectacular shrub, though its lilac-colored flowers, coming in early spring before the leaves, would surely be welcomed by the winter-weary gardener, and its white fruits are attractive.

Although it eventually grows to three feet in height, it is a slow grower and takes its time to attain that height. It is reported to prefer a limy soil and, of course, a pro-

TECTED spot outside the south. An experienced English grower told me several years ago that he had found seedage the best method of increase.

Linum Carnosulum

I had an inquiry about *Linum carnosulum*. The plant, if available, should interest a host of neighborhood growers who have plant enthusiasts among their clients. I find the following remarks on it among my notes.

Linum carnosulum is essentially a 2-inch edition of the more familiar *L. austriacum*, which, in turn is a 2-foot European flax with purplish flowers. The tiny, yellow-flowered Asian, *L. aretioides*, which may be known, makes a little cushion of foliage, upon which rest stemless cups of bright golden yellow, all no more than two inches tall. Change those

flowers to a bright shade of blue and one has a good picture of my present plant, which is also an Asian.

Both have the reputation of being tender to cold, and, judging by their origin, one might be justified in thinking so. Experience, however, has shown that it is hardly enough to stand 25 degrees below zero, if it has a snow blanket in a protected spot. Apparently, its worst enemy is damp, and it will not stand that condition at any time of year.

Salvia Scabiosaefolia

Another reader asks about *Salvia scabiosaefolia*, answered with the following note which I found in one of my garden books of 1938.

"The books say it is a white-flowered species from Tauria (*S. habliziana* is a synonym, I believe), growing from a foot to 18 inches in

FINE SPECIMEN PIN OAK

(*Quercus palustris*)

For Landscape

	Per 10	Per 100
8 to 10 ft.	\$ 85.00	\$ 800.00
1 1/2 to 2-in. cal.	110.00	1000.00
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height. My plants answer that description, except that the flowers are tinged blue, sometimes with definitely blue throats and lips. But the books do not say anything about the size of the flowers, and that seems strange to me, for they are large for a sage. It blooms here for more than a month in early summer."

Later experience showed that it is fully hardy in this northern Michigan climate, persisting, and even self-sowing, under utter neglect. As I look back on it now, I should expect it to be popular with ordinary gardeners.

Rubus Ellipticus

A Pennsylvania reader asks if *Rubus ellipticus* would be hardy in his climate. I am not acquainted with the plant, but I should not expect any plant from India, its native home, to be hardy in his state. He says he saw it in California and thought its brownish stems would be lovely in the winter landscape if it could be grown in the east. If he, and others, want a *rubus* for winter effects in this climate, may I suggest *R. cockburnianus*? I have seen old specimens of it in New York state; so it should be hardy enough for most of the east. The plants from which my notes were made were labeled

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R. giraldianus, but the books give that as synonym of R. cockburnianus; so I assume they are the same.

My present plant, R. cockburnianus, came from China, according to my texts. My notes do not say how tall it grows, but the picture in my mind is of a plant about four feet tall, the stems being slender and graceful, bending over and drooping at the tips. They are white-glaucous throughout the year, making a conspicuous ornament in the winter garden. In fact wintertime is the only season of the year when it would be conspicuous, for its rather large leaves (white beneath) are not especially ornamental and its small, purplish flowers, in panicles, are not especially attractive. The plants that I saw were in full sun. I did not ask about propagation, but I believe they could be grown from root cuttings like other brambles.

Brunnera Macrophylla

I was visiting with a friend when the subject of Anchlussa myosotidiflora (Brunnera macrophylla, according to the powers that be) came up. Years ago he had grown it in large numbers, as I remembered, and now he does not have a single plant. Present-day gardeners do not know how to use it, he assured me, and, as a consequence, they think it coarse.

And coarse it is when poorly used. My friend had tried to tell his customers to use the plant in small groups so the big leaves would not give the coarse look when it is not in flower. And that is good advice, I think, but even better is to plant it in the wild garden, where coarseness can be overlooked. There, its large, forget-me-not flowers can be enjoyed to the fullest, not only in the garden, but for cutting during its long blooming season. In fact I know two or three neighborhood growers that grow it especially for cutting for local florists. Not long

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after the foregoing talk, I found a mass planting of it along a stream in a private garden which gave me another insight into its usefulness.

The plants grow to 18 inches or so in height and are easily grown from seeds or divisions. If using divisions, I found late summer a good time for the work, because that gives the divisions time to become established and be prepared to go right ahead the next spring to give a season of flower production or for spring and summer sales.

Lobelia Cardinalis

Another inquirer asks about the cardinal flower, *Lobelia cardinalis*, as a cut flower. Several characteristics of the plant, including a brilliant though not harsh red color, point to usefulness as a cutting item. Its desire for constant wetness has, however, worked against its wide acceptance among gardeners. As I have pointed out in these columns before, the plant will make a presentable showing in the landscape without these wet conditions, provided it is given shade and a leafy soil. However, I was never able to induce it to produce the high quality necessary in a commercial cut flower unless it had an abundance of moisture.

Using correct growing conditions, one might be agreeably surprised by the income that a planting of the cardinal flower would turn in. It would, at least, be worth a trial of a few plants.

Aquilegia Discolor

It is unfortunate that many gardeners have somehow formed the opinion that all small columbines are short-lived. It is true, of course, that some are rather fleeting, and that is the reason often given for their neglect. It is also true that the large kinds are equally inconstant, but that does not keep gardeners from them. So why should they shun the small ones? It might be that gardeners would change their prejudice to admiration if they were shown some of the more stable small ones.

The Spaniard, *Aquilegia discolor*, is an example. I usually question the hardness of a Spanish plant and not often am I disappointed; however, in this case, the plant surprised me by being quite hardy and, of equal importance, fairly long-lived. It makes a conservative tuft of gray-green leaves lovely in itself, but its crowning glory comes when it sends up 8-inch stems, each one bearing at the top a lovely blue and white flower. The books do not tell the whole story in describing the plant, because, at least the ones consulted, do not say

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122	2 1/4-in. Round	2 1/4"	37 lbs.	3000	\$22.50	7.50	7.00	6.50
222	2 1/4-in. Square	2 1/4"	37 lbs.	2500	\$20.25	8.10	7.60	7.00
130	3-in. Round	3"	37 lbs.	1500	\$19.95	13.30	12.30	11.30
230	3-in. Square	3"	40 lbs.	1000	\$15.50	15.50	14.50	13.50
330	3-in. Shorty	2 1/2"	37 lbs.	1500	\$19.50	13.00	12.00	11.00
335	3 1/2-in. Shorty	3 1/2"	40 lbs.	1000	\$17.75	17.75	16.50	15.25
140	4-in. Round	4"	35 lbs.	500	\$14.75	29.50	27.50	25.50
240	4-in. Square	4"	45 lbs.	500	\$15.00	30.00	28.00	26.00
425	2 1/2-in. Rosepots	3 1/2"	35 lbs.	2000	\$20.00	10.00	9.25	8.50
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that the white sepals often have a flush of red on their backs, especially at the tip and along the center. This added color gives the specific name meaning; it also gives an extra charm to the flower. It was both easy and quite permanent in light shade in the ordinary sandy soil of the garden.

Some Thoughts on Coreopsis

It has been on my mind for some time to devote a little space to coreopsis. I shall discuss a few kinds now and complete the task later.

One would naturally judge from the widespread use of *Coreopsis grandiflora* that the genus needs no introduction to gardeners, especially to professional gardeners like American Nurseryman readers; however, further investigation will show, I think, that *C. grandiflora* is about the only one of the 70 or more species that has found any great acceptance among the gardening fraternity.

It is true that *C. rosea* has had publicity in periodicals and has no doubt been tried by some neighborhood growers, perhaps with unsatisfactory results. These growers could tell you, I believe, that it is not a plant for general cultivation, requiring more care as to soil and moisture than the average gardener is prepared to give his plants. That is said in face of the fact that its abundance of rose-colored daisies, on 8-inch stems, is ample reward for the extra care needed.

But the two mentioned are not the best of the tickseeds that have been in my trials. That honor, it seems to me, goes to the southerner, *C. saxicola*, if a plant of *grandiflora*'s height is desired, or to *C. tripteris*, when a 6-foot or higher plant is needed. The first of these, *C. saxicola*, might be mistaken for *grandiflora* by the unobserving, but close inspection will reveal many differences, including better growth habits and better foliage. It also differs in blooming later, longer and more abundantly, if that is possible, according to my experience. It is a splendid plant, deserving of wide recognition, and easily grown under the same care given *grandiflora*. It had a tendency to come through the severe winters in a rather debilitated condition, indicating, I suppose, that this is about as far north as it would be safe at all.

On the other hand, *C. tripteris* is not only hardy, but it is able to take care of itself under almost any circumstances. It will grow eight feet tall under high culture and will light up the August and September scene with many pale yellow, dark-

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centered, somewhat fragrant (anise-scented) flowers.

The kinds mentioned, with the exception of *C. rosea*, need a rich soil and plenty of moisture to do their best. That is not what they are generally given, however, because gardeners usually take advantage of their amiable disposition by relegating them to the poorer and drier parts of the garden. That kind of treatment will never induce any tickseed to give its best performance.

The annual kinds, including the red-flowered *C. atkinsoniana*, the precocious westerners known as leptosynes and *C. tinctoria*, have much value as garden plants and for cutting. The better kinds should make good property in the neighborhood grower's hands in the form of pot-grown plants ready for sale when planting fever hits his customers.

JAMES P. GURNEY, executive secretary of the American Rose Society, Columbus, O., has announced his resignation effective April 15. He will be associated with O. M. Scott & Sons Co., Marysville, O.

RENAMED Glen's Garden Center, Manette, Wash., is Pat's Garden Center, which was leased recently to Glen E. Greseth.

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BOOK REVIEWS

LILY YEARBOOK

The 13th volume of the yearbook of the North American Lily Society, for 1960, just published, continues this valuable series under the editorship of Dr. George L. Slate, Geneva, N. Y. Containing articles on many aspects of lily culture, by scientists, commercial growers and amateurs, it includes contributions from New Zealand, Australia and Japan, as well as this country and Canada. The yearbook contains the roster of officers and members, and it is available from the treasurer, Ernest F. Stokes, 21 Oakland street, Lexington 73, Mass., for the membership fee of \$4 per year.

AMERICAN GARDEN GUIDE

Twenty-two years ago E. I. Farington, then the secretary of the Massachusetts Horticultural Society, compiled "The Gardeners' Travel Book" as the first guide for tourists interested in cultivated plants. Since that time there has been no similar effort, until the appearance this autumn of the larger and profusely illustrated volume, "A Pictorial Guide to American Gardens," just published by Crown Publishers, Inc., at \$5.95. The authors are Louis H. Frohman, a retired colonel with a hobby of color photography, and Jean Elliot, long-time garden enthusiast. Colonel Frohman traveled widely to make many of the photographs which illustrate the book and to assist Mrs. Elliot in compiling material for the text. She acknowledges that her work was largely done by correspondence, which must have been extensive, but has produced an unevenness in the descriptions and some apparent omissions here and there.

But the large volume of 368 pages, 7x10½ inches, contains much useful information for travelers and interesting reading for stay-at-home gardeners. Printed in offset with the text are 400 illustrations in the successive pages of the book, while a 32-page insert carries 95 illustrations in color.

The text is presented by regions, state by state, with brief descriptions of each garden's contents, when in bloom and open for viewing, special features, cost of admission if any, guided tours if available, and similar data. It is stated that 1,500 gardens are covered, of which 400 are

described in detail and illustrated. Perhaps the new volume does not contain all of the brief entries, town by town, in Farrington's older guide, but it is an up-to-date source of information for gardening tourists and will surely prove an appropriate gift book to other garden enthusiasts.

ANATOMY OF SEED PLANTS

The author of the classic textbook on plant anatomy published in 1953, Dr. Katherine Esau, of the University of California, Davis, has followed it with "Anatomy of Seed Plants," just published by John Wiley & Sons, at \$6.95, an introductory textbook for botany students.

The book begins with a summary of the internal organization of the plant body and a summary of the eight types of cells and tissues. These are each covered in succeeding chapters. Next the root in its primary and secondary states of growth is discussed, then the leaf, flower, fruit and seed. At the end of each chapter is a bibliography, intended to supplement that of the earlier volume, while the book concludes with a glossary of botanical terms of nearly 30 pages and an index of 12 pages.

GROWING AND USE OF HERBS

The revived interest in herb growing has led to the publication of several new books on the topic, the latest being "Fragrance and Flavour," subtitled "The Growing and Use of Herbs," by Rosemarie Hemphill, just published in this country by Charles T. Branford Co., at \$3. The book is of Australian origin, and the author and her husband are reported to grow herbs, while she has made a special study of their use in cooking. The emphasis is chiefly on the culinary side in this little book of 104 pages, which reveals a close knowledge of growing also.

After short chapters on the growing of herbs in general, their culture and harvesting, growing indoors, and forms of fragrant gifts, 25 principal herbs are given individual treatment in alphabetical order, from angelica to thyme, while the few closing pages are on herbal teas.

In the section on treatment of individual herbs, each is described as to character of plant, type of growth, propagation, garden recommendations and various uses, with the addition of a few recipes for each, followed by cooking instructions.

This book covers fewer herbs than others, but the interesting treatment

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Pin Oak, 3-in. cal. and smaller

Willow Oak, 2 1/2-in. cal. and smaller

American Linden, few 3-in. cal., also 6 to 8 ft. and 8 to 10 ft.

Redbud, 2 1/2-in. cal. and smaller

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Sycamore, 3-in. cal. and smaller

European Mountain Ash, 8 to 10 ft. and 6 to 8 ft.

Chinese Elm, all sizes 6-in. cal. and smaller

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of those mentioned will recommend it to herb hobbyists and perhaps make additional ones.

PRINCIPLES OF GENETICS

Written primarily for the college student taking his first course in genetics, "Principles of Genetics," by Eldon J. Gardner, professor of zoology of Utah State University, just published by John Wiley & Sons, at \$7.50, includes examples taken from plant, animal and human material, with a view to presenting a well-rounded view of this modern science. Hence it is a general treatment of genetics and incidentally of its aspect pertaining to plants. Scientific terms are freely introduced and frequently repeated in order to impress their meaning upon the students who use the book. The problem approach is used in discussions, as well as employed in the learning exercises at the ends of the chapters. The purpose of the book is to develop a full account of modern genetics, rather than to instruct in specific applications.

CACTUS HANDBOOK

The fad for cacti still prevails or has been revived in England, as attested by the appearance of the second edition of "Grow Cacti," by C. Marsden, written in England and published in this country by St. Martin's Press, Inc., at \$4.50.

Subtitled "a practical handbook," it is all of that, the 178 pages containing instructions about cultivation outdoors, in the greenhouse and in the living room, with advice as to compost, potting, bowl gardens, watering, propagation, soilless culture, grafting and pests. Classification of cactaceae, a list of common names, a dictionary of generic and specific names, and a glossary of botanical terms add to the reference value of the book. There are four plates in full color.

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By John J. Pinney. 64 p. (1958). \$1.00.
American Nurseryman Chicago 4, Ill.

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SOUTHERN TREE CONFERENCE

[Continued from page 14]

trees are also treated, reinfestation is likely to be rapid.

Make three spray applications. Spray first when trees are dormant (before new growth begins in the spring) with a superior dormant oil or a white oil emulsion with 50 to 57 per cent malathion added. There are several formulations containing from 50 to 57 per cent emulsifiable malathion available on the market. Any

of these should be suitable for use against this pest.

For a 3-gallon sprayer use one cup of oil, plus four tablespoonfuls of malathion. For 50 gallons of spray use one gallon of oil, plus one pint of malathion.

Make the second application in early May, with a 50 to 57 per cent emulsifiable malathion and 25 per cent emulsifiable DDT mixture, and the third application in early June. For three gallons of spray use two tablespoonfuls of malathion, plus

two tablespoonfuls of DDT. For 50 gallons of spray use one pint of malathion, plus one pint of DDT.

Treat again in the early fall with DDT and malathion spray if crawlers are noticed or if waxy material reappears on the leaves.

Wax Scale

Dr. McComb also discussed a wax scale, ceroplastes. This scale pest is becoming commoner in the Baltimore area. It infests many ornamentals, hemlock, camellia and holly be-

TAXUS

Taxus cuspidata

15 to 18 ins.	\$2.75
18 to 24 ins.	3.25
2 to 2½ ft.	4.50
2½ to 3 ft.	5.25

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Same sizes, same prices as *cuspidata*.

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These are all heavy plants.

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ing particularly susceptible. Severe infestations may kill plants. Overwintering females attach themselves to the stems and appear to be large white or cottony drops of wax. Eggs are laid early in the spring under the female scale. Small, pink crawlers generally appear in late spring.

Control of this pest depends entirely on timing of insecticidal treatments to kill crawlers or young. To control crawlers, spray twice, seven days apart, in early June or when they are first noted. Use malathion, two-thirds cup of 25 per cent wettable powder, or three tablespoonfuls of 57 per cent emulsifiable concentrate, in three gallons of water.

Pesticides and Wildlife

Most pesticidal materials are poisons. The hazard depends on how they are used and not on the fact that they are poisonous, said Dr. George Langford, state entomologist, from the University of Maryland, in speaking on "Tree Spraying and Its Relation to Conservation." The use of pesticides is necessary to protect our timber, shade trees and crop plants. It is estimated that 7 billion board feet of timber are destroyed annually by insects and diseases affecting trees.

Much criticism against the use of pesticides has been offered because of possible danger to wildlife. Dr. Langford pointed out that trees are necessary for many forms of wildlife and that protecting the trees by pesticides in many instances is actually beneficial to wildlife. While it is true that in certain instances some birds, bees and other forms of wildlife have been killed by pesticides, these losses have been relatively insignificant. Probably hunters, cats, automobiles, salt and other agencies kill many more birds annually than die as a result of poisoning by pesticides. There are few authentic cases of bird loss from properly used pesticides. There are now adequate laws regulating the use of insecticides to protect wildlife.

Efficient Use of Manpower

Hyland R. Johns, Asplundh Tree Expert Co., Chalfont, Pa., in speaking on "Making the Most of Your Manpower," stressed selection, training and supervision as essentials in building and maintaining an efficient work force. All of these efforts are important, but good management and adequate supervision come first, since without them selection and training of men will not be carried on effectively.

In the selection of men for foremanship of tree-trimming crews, Mr.

BURFORD HOLLY

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Johns pointed out the following as common errors: (1) Observing seniority; the eldest man on the job is not always the best candidate for foreman; (2) making the best climber a foreman; (3) making the most popular man a foreman, and (4) permitting personal bias or prejudice to influence selection of a foreman.

A well-trained man can work safely and save time and make money for the company. In training new men, one should tell them how to do the job, then show them how to do it and, finally, check them to be sure they know how to do it properly. New men need encouragement and also discipline at times. In teaching safety, it is best to talk about situations that lead to accidents and how to do a job correctly to avoid these situations.

In addition to knowing the job, a good supervisor should be dynamic, a good competitor and a sociable person. He should have a good understanding of human nature. The responsibilities of a supervisor should be well defined, preferably in writing.

Line-Clearance Program

To provide good service to its customers, fair compensation to employees and a fair return to stockholders should be the goals of every utility, according to William B. Wilkinson, superintendent, electric distribution department, Baltimore Gas & Electric Co. Trees are an important factor in the utility's ability to meet its goals, since the cost of tree clearance is a major annual operating expense. Line clearance in many instances is the largest operating cost, except for fuel.

By careful management to have a definite motive for all tree-trimming operations and to have well-trained and well-supervised persons to do the work, the Baltimore utility has been able to decrease the cost of line clearance on a tree basis during a period of increasing labor costs.

SOUTHEASTERN SHOW

[Continued from page 8]

this garden the traditional Oriental look.

Rocks Lend Natural Effect

To the left of the Japanese garden, the scene shifted to a "Mountain Garden in the Spring," exhibited by the Aldridge Rhododendron Nursery, Crossnore. This garden covered 1,025 square feet.

Rocks protruded from the garden floor in several locations, with a

FLOWERING DOGWOODS

Cornus florida Cherokee Chief®—Red-flowering Dogwood

(Plant Patent No. 1710)



(Bare-Root)	Per Each 1 to 9	Per Each 10 to 29	Per Each 30 to 100
12 to 18 ins.	\$1.15	\$1.10	\$1.00
18 to 24 ins.	1.50	1.40	1.25
24 to 30 ins.	1.75	1.65	1.50
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Cornus florida rubra—Pink-flowering Dogwood

Cornus florida—White-flowering Dogwood

Varieties:

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3 to 3½ ft.	1.00
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Hetzi Glauca Juniper	
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Miles L. Monroe, General Manager
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stream wandering among them and finally falling over an outcropping of rocks into a crystal-clear pool. A pole bridge spanned the pool in front of a wooden house and porch, which formed the background for the mountain scene. To give this garden color, mountain laurels, rhododendrons, hemlocks, white pine, Norway spruce, azaleas, dogwoods, moss, galax and trillium were used, all being native to the mountains of North Carolina.

The Carolina Floral Co., Mount Holly, S. C., featured a garden for city dwellers. Covering 345 square feet, the patio design showed the use of plant materials with a reflecting pool, paved terrace and seat wall that would provide pleasure and delight for most urbanites with limited space for garden development. The outer edges of the garden were bordered with helleri hollies and compact Pfitzer junipers. Along the base of the wall, liriopse was used. White and pink petunia clumps added the necessary color to make an impressive and desirable garden for a city home site.

A modern version of man's earlier efforts at gardening was featured by the department of horticulture, North Carolina State College, entitled "Kitchen and Herb Garden." Dr. Fred Cochran, head of the horticultural department, created this attractive garden.

Screened by brick walls, small plots of vegetable and herb plants were separated by brick walkways and accented with separate plots of blooming snapdragons, petunias, chrysanthemums, tulips and daffodils. Boxwood and dwarf holly outlined the garden.

Swimming Pool Garden

Howell Landscape Co. and Carolina Pools, Inc., Sanford, N. C., co-operated in presenting a swimming pool garden area that combined privacy with pleasant family relaxation. The pool was a full-scale replica measuring 14x30 feet surrounded by a brick terrace.

In back of the pool was an area set aside for entertaining and outdoor dining. Evergreen shrubs planted between pines and magnolias provided the screening plants for privacy. On the sloping terrace in front of the pool was a planting of helleri hollies. Dwarf red and white azaleas and tulips were planted among the bordering evergreens.

It seems that roses have an established niche in all garden shows, and the southeastern flower and garden show was no exception, for the Apex

SPECIAL FOR SPRING, 1961

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	Each
3000 <i>Leucothoe catesbaei</i> , 6 to 15 ins., heavy, TT., S.	\$0.40
3000 <i>Canadian Hemlock</i> , 2½ to 3 ft., sheared	3.25
1000 <i>Abies fraseri</i> , 2 to 3 ft.	2.50
500 <i>Cornus florida</i> , 4 to 5 ft.	3.50
500 5 to 6 ft.	4.50
5000 <i>White Pine</i> , TT., B. R. liners, sheared once	1.00

Collected, B&B

	Each
2000 <i>Oxydendrum arboreum</i> , 4 to 6 ft.	\$2.90
2000 6 to 8 ft.	4.00
Per 1000	
10,000 <i>Kalmia latifolia</i> , 6 to 9 ins., S.	\$ 75.00
10,000 <i>Rhododendron maximum</i> , 6 to 12 ins., S.	125.00
2000 <i>Rhododendron catawbiense</i> , 6 to 12 ins., S.	150.00
1000 <i>Rhododendron carolinianum</i> , 6 to 15 ins., S.	250.00

SOLD OUT ON ALL OTHER MATERIAL UNTIL FALL, 1961

ANTHONY LAKE NURSERY, INC.

Pineola, N. C. Phone: REpublic 3-2456

BOOKS ON PRUNING

The Pruning Manual, by E. P. Christopher. Based on *Pruning Manual* by L. H. Bailey. Authoritative information on pruning all temperate-zone fruits, shade trees and ornamental shrubs. Sections on forestry, grafting, root pruning, wound treatment and tools. 320 p., illus. (1954)

Pruning Without Pain, by O. B. Howell. Trees, shrubs, evergreens, hedges, vines, roses, fruit trees, grapevines and root pruning. Many line drawings show precisely what and how to cut. 40 p., illus. (1958)

Sunset Pruning Book, by R. L. Hudson. Instructions on pruning rhododendrons, azaleas, roses, evergreen and deciduous trees. Section on how to espalier. 80 p., illus. (1952)

Pruning Made Easy, by Edwin Steffek. Tells how, what and when to prune. Covers trees, shrubs, evergreens, hedges, roses, small fruits, grapes and vines. 120 p., illus. (1958)

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, Ill.

TAXUS CAPITATA

Large Quantity—Japanese Seedlings
Good Quality—Single Leaders
Come See—Write for prices.
Sizes 2½ to 6 ft.

Boone Gardiner Nurseries
9408 Shelbyville Rd. Louisville 7, Ky.

Did You Get Our New Catalog?

Better get your supplies in
before the rush!

Ornamentals and Supplies at Wholesale

CHASE NURSERY CO.
Chase, Ala.

QUALITY STOCK GROWN BY US

Cherokee Chief Red-Flowering Dogwood
(Plant Patent No. 1710)
Shade Trees, Flowering Trees, Evergreens, Broad-Leaved Evergreens.

Write for wholesale list.

HAWKERSMITH & SONS NURSERY
Tullahoma, Tenn.

Nursery, Raleigh, N. C., exhibited a formal rose garden. All plant beds for roses and the front border of holly holly were raised two feet from the solid brick garden floor.

Ilex cornuta rotundifolia was used on the extreme corners of the garden, with a lattice block wall furnishing the background. Twenty varieties of roses in full bloom were the highlight of this garden. It appeared that White Knight and Peace varieties drew the most attention.

Seacoast Setting

The exhibit of Roanoke Island Gardens, Manteo, showed how sand, driftwood and plants native to the Carolina seacoast can be integrated with architectural features to create a beautiful outdoor area.

How a garden for adults and a play area for the children can be combined in a space of 600 square feet was demonstrated by the Maxwell Garden Center, Cary.

Other garden exhibitors were Fowler's Nursery, Raleigh; Patterson's Flowers, Shelby; Laurel Lake Gardens & Nursery, Inc., Salem; Taylor's Nursery, Raleigh; Penarrow Nursery, Raleigh; Daniel Nursery & Plant Garden, Murfreesboro; Earl Pettey Nurseries, Guilford, and New River Nursery, Hubert.

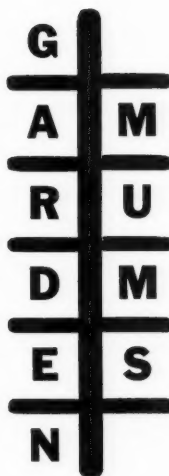
During the show many visitors were asked to give their reasons for attending. By a large majority the main reasons were to obtain ideas on how to improve home gardens, to learn suitable garden plants and how to use them and to see the beauty of a large garden show. It was not unusual to see visitors with pencil and pad making notes on a particular garden. Including viewers from all the southeastern states, attendance totaled more than 50,000 for the entire show.

Encouraged by this indication of interest in its first exhibition, Southeastern Garden & Flower Show, Inc., is developing plans now for the second show, tentatively scheduled for March 2 to 6, 1962. The gardens will be designed, landscaped, and planned by the individual nurserymen and flower growers and will be judged on a competitive basis. It is expected that increased participation by members of the two groups and by out-of-state associate members will expand the show by several thousand square feet of floor space.

OPENED recently was the nursery department of Builders Emporium, Van Nuys, Calif.

GARDEN MUMS

Rooted Cuttings



Disease-free

Modern varieties

Quality assured

Packaged for safe arrival

Rapid, efficient service

If not on our mailing list, be sure to ask for our 1961 Lists.

CUNNINGHAM GARDENS, INC.

Waldron, Ind.

HOLLAND BULBS

T. R. BEGONIAS

GLOXINIAS

HARDY LILIES

BLEEDING HEARTS

PERENNIAL SPECIALTIES

UNUSUAL BULBS

VERONA GARDENS

Rt. 5, Battle Creek, Mich.

ask for PRICE-LIST

SMALL FRUIT PLANTS

Grapes

Currants

Berry Plants

Write for Wholesale Price List

FOSTER NURSERY CO., Inc.

69 Orchard St. FREDONIA, N. Y.

PAUL'S SCARLET HAWTHORN

6 to 7 ft., standards, \$1.60 each

Heavy NORWAY MAPLE Trees

6 to 8 ft., br., \$1.20 each

Salesyard Quality

DWARF APPLE TREES

5 to 6 ft., br., only 95c each

APPLE TREES ON M M 111 and 104

These are heavy-producing, heavily rooted trees.

5 to 6 ft., br., only \$1.15 each
4 to 5 ft., br., only \$1.05 each

BARTLETT and BEURRE D'ANJOU PEARS

On French Roots

Quality 6-ft. trees, 90c each
Large quantities 10% further discount.

DWARF PEACH TREES

THE C. D. MORRIS NURSERY, LTD.

Box 5
Ocean Park, B. C., Canada



CALIFORNIA ASSOCIATION OF NURSERYMEN

ELMER J. MERZ, Executive Secretary
304 MITAU BUILDING SACRAMENTO 14, CALIF.

SAN JOAQUIN CHAPTER

The San Joaquin Valley chapter of the California Association of Nurserymen met February 23 at the Villa Basque, Fresno, with 61 members and guests present. Mr. and Mrs. George Abe, Selma Nursery, Selma, and Mr. and Mrs. Robert Kanagawa, Sanger Nursery, Sanger, were the hosts and hostesses.

Louis La Valley, Fresno State College, announced that the television class "Growing Ornamentals" is still open. He also explained that to obtain better help for the nursery trade in the future, nurserymen should contact high schools and colleges to inform counsellors that there is a need for educated persons in this fast-growing industry.

A directors' meeting was held at the Thunderbird hotel, El Segundo, March 30. Topics that members felt merited discussion were whether each chapter should be able to expel its own members and the hiring of a field man for the association.

Syd Whitehorn, Fresno nursery consultant, brought up the subject of the number of members who have dropped out of the association because of the 40 per cent assessment. Discussion brought out the feeling that the more populated areas are benefitting most; newspaper reports are better prepared to represent local situations. It was suggested that something be done to increase returns to members in the San Joaquin Valley area.

Kay Tanouye, Palo Alto, was the featured speaker, illustrating his talk on Japanese landscaping with color slides of gardens he has completed in the bay area. He pointed out that the purpose of Japanese gardens is to extend the living area of the home to the outdoors. Simplicity and uniformity the year around are used, even to sacrificing blooms on shrubs by pruning to maintain plant form. The design often gives an illusion of coolness.

Roy Otto, landscape architect, Fresno, concluded the program with a concise explanation of the different types of Japanese lanterns. Mr. Otto also designed the Oriental room and table decorations for the meeting. Ralph Books, Sec'y.

MONTEREY BAY CHAPTER

Approximately 45 members and guests of the Monterey Bay chapter of the California Association of Nurserymen met February 16 at the Frontier Town Inn, Salinas. Dorothy C. Stemler, Will Tillotson's Roses, Watsonville, was accepted as a member of the chapter.

Al Pettler, Pettler Advertising, Inc., Orinda, sent a sample of the advertising mats that are available free from the state office.

Dr. R. W. Harris, department of landscape horticulture, University of California, Davis, gave a short talk on production and use of plants in landscaping.

Dr. Howard Brown, department of ornamental horticulture, California Polytechnic Institute, San Luis Obispo, invited the Monterey Bay chapter to the Tri-County chapter meeting to be held at Cal Poly. Dr. Brown

informed the group that Cal Poly operates a commercial nursery on the campus where a student can grow plants for retailing, the student keeping two thirds of the profit, with one third going the college. This retail nursery works in co-operation with the local California Association of Nurserymen members and nurseries and it helps the horticulture students earn extra money.

Dr. Brown, who is in charge of the refresher course to be held June 6 and 7, said that Santa Barbara, San Luis Obispo and Ventura counties set up the course 13 years ago with the idea of training personnel in nurseries. Each year it has changed and has featured another aspect of the nursery trade. This year's course, sponsored by the Peninsula chapter of the C. A. N., will deal with sales and management.

Jack Wick, assistant executive secretary of the C. A. N., said that \$36,000 was received as a refund on payments made in the past year in workman's compensation by association members. The difference between this and ordinary insurance is that the premiums are put in a pool and claims are paid out of this pool. At the end of the year, the money left over after claims are paid is re-



Fruit, Nut, Shade & Flowering Trees
Grapevines - Fig Trees
Field & Container Grown Ornamentals

Whatever your needs — try Stribling's Golden Anniversary Specials first. By express, truck or carload — *when* you want them, grown as your customers want them.



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turned to the members of the group plan. The C. A. N. has had an average of 26½ per cent returned to it every year.

Bernard Mooney, E. B. Stone & Son, Salinas, collected \$35 which, added to the previous total, made \$178.68 toward the \$200 scholarship fund. This scholarship is awarded annually to a deserving student at Cal Poly.

President Clay Pleiman, Tempo Landscape, Castroville, announced that the next meeting would be held in the Watsonville area March 16, with Ben and Dorothy Roth, Alladin Nursery, Watsonville, in charge.

Sue Mell, Sec'y.

OREGON DIRECTORS MEET

The board of directors of the Oregon Association of Nurserymen met March 7 at the Portland Wholesale Nursery Co., Portland. Present were President Erwin S. Fowler, Milton Nursery Co., Milton-Freewater; Vice-president Patrick M. Dering, Peterson & Dering, Scappoose; Treasurer Paul Van Allen, Portland Wholesale Nursery Co., Portland; executive secretary Mervin Belknap, Portland; Cascade chapter representative Vernon Marshall, Marshall Nursery & Florist, Medford; Clackamas chapter representative Laurence T. Effinger, Hood View Acres, Oregon City; Columbia River chapter representatives William Moller, Moller's Nursery, Fairview, and Arthur Suhr, Mount Hood Nursery, Gresham; Emerald Empire chapter representative Robert Van Zonneveld, Van Dyke Flowers, Eugene; Rose City chapter representatives Joe H. Klupenger, Klupenger Nursery & Greenhouses, Portland, and Norman June, Junay's Garden Center, Portland; Sunset chapter representatives Lynn Brooks, Carlton Nursery, Forest Grove, and Phineas McCoury, McCoury's Garden Center & Nursery, Astoria, and Willamette chapter representative John Heffley, Heffley's Nursery, Salem.

Pat Dering, chairman of the membership committee, proposed a membership folder, listing O. A. N. membership advantages as an aid in the coming membership drive. President Fowler is to name a coordinating committee from the O. A. N. to assist chapter 12 of the American Association of Nurserymen work on plans for the A. A. N. convention, which it is anticipated will be held at Portland in July, 1963.

The board reviewed the results of the recent O. A. N. convention at Portland and decided to consider the idea of substituting a combination



Happy Easter

Flowers speak a universal language and their many meanings are readily interpreted by all.

A growing plant at Easter time is an ageless tradition—a gift received with pleasure, appreciation and understanding of its great meaning.

Your "TOPS IN ROSES" in bloom, for Easter attractively prepared as gifts, will live to repeat again and again this pleasure and remembrance of the glorious Easter story.

Printers' deadlines have been met

The presses are rolling

Soon we will have a new list of

"TOPS IN ROSES" for YOU!

Bushes — Climbers — Tree Roses



**WEEKS WHOLESALE
ROSE GROWER**

O. L. WEEKS



926 W. Philadelphia

Ontario, Calif.

PORTLAND WHOLESALE NURSERY CO.

5050 S. E. STARK ST.

Avery H. Steinmetz
Paul E. Van Allen

PORTLAND 15, OREGON

Many items still available. Write, wire or PHONE today, BElmont 5-3113.

Quality Stock

CONIFERS AND BROAD-LEAVED
EVERGREENS
SHADE AND FLOWERING TREES
FRUIT TREE SEEDLINGS
FRUIT TREES
DECIDUOUS SHRUBS
VINES AND BULBS
PORTLAND ROSES
NURSERY SUPPLIES

Write for our Catalog



QUALITY ROSES



Grown in the healthy, smog-free valley of central California.

Finest, field-grown, two-year-old rose plants in the west.

Featuring all the NEW A. A. R. S. AWARD WINNERS.

Remember, QUALITY means more profits for you.

Send for our latest catalog.

MONTEBELLO ROSE CO.

Wholesale Only

401 N. Sixth St. Montebello, Calif.
Phone: PArkview 1-1300

Moore

MINIATURE ROSES

Ask for new
1961 listing of

40 varieties—including

DIAN, LOLLIPOP, LITTLE
BUCKAROO, PINK HEATHER,
PINK JOY, POLKA DOT,
BIT O'SUNSHINE, etc. . . .

"Moore Miniature Roses"

SEQUOIA NURSERY Visalia, Calif.



ORNAMENTAL WOODY PLANTS AND ROSES

Write for our lists.

W. B. CLARKE & CO.
P. O. Box 343 SAN JOSE, CALIF.

RHODODENDRON AND EVERGREEN LINERS

In Season

J. B. WHALLEY NURSERY
Rt. 2, Box 683 TROUTDALE, ORE.

A. MCGILL & SON

FAIRVIEW, ORE.

Wholesale only

FRUIT TREE SEEDLINGS
FLOWERING ORNAMENTAL TREES
SHADE TREES

Licensed Growers of

Crimson King Maple (Pat. No. 735)
Moraine Locust (Pat. No. 836)
Shademaster Locust (Pat. No. 1515)
Skyline Locust (Pat. No. 1619)
Sunburst Locust (Pat. No. 1313)

Constant Vigilance Results
in Quality Stock

Combination carloads to eastern
distributing points.
Write for our list.

LINING-OUT STOCKS

Alberta Spruce, Juniper, Cypress, Arborvitae, Yew R. C., 10c each—T., 15c each.

BROAD-LEAVED EVERGREENS: Camellias, R. C. 25c each; Daphne, Andromeda, Abelia, R. C., 10c each; Azaleas, complete list, R. C., 5c each, T., 10c each.

Good assortment of evergreens, fruit, shade and flowering trees. Write for special list.

BENEDICT NURSERY CO.

Since 1890

735 N. E. 87th Ave. Portland, Ore.

OREGON HOLLIES

Skimmia japonica
General Nursery Stock
May we quote you?

ALFRED TEUFEL

Wholesale Grower
11414 N.W. Cornell Rd.
Portland, Ore.

CUTTING-GROWN RHODODENDRON LINERS

Hardy and semihardy varieties.

Quality only

VAN VEEN NURSERY

3127 S. E. 43rd Ave.
PORTLAND 6, ORE.

contributor-advertising program for dealers, instead of a trade fair. The past convention was a success, however.

Mr. McCoury has been asked by President Fowler to investigate the idea of standardizing Arbor day throughout the 50 states of the Union. His initial efforts will be with the Oregon legislature.

The dues structure will remain unchanged for the present. Portland was chosen as the site for the 1963 convention, which will be held in January. A combined chapter meeting of the Columbia River, Rose City, Sunset and Clackamas chapters was approved by the board and will be held April 18 at the West Linn Inn, West Linn. The Clackamas chapter will act as host. All Oregon chapters are invited to attend.

The board discussed the possible revision of existing nursery laws. President Fowler will appoint someone from the association to serve on a horticultural committee to advise state officials in the matter. A review of present legislation satisfied the board.

The board will hold its next meeting in the Grants Pass area, at which time it is hoped that a joint meeting of the Cascade, Emerald Empire and Willamette chapters can be held. A picnic will precede the meeting.

The advertising promotion committee, headed by Merv Belknap, has been asked by the board to look into a state-wide idea whereby the chapters can be aided in some type of industry advertising. One probability is that of window banners for retail outlets.

President Fowler has named the following committee chairmen for 1961: Patrick Dering, membership; Paul Van Allen, finance; W. P. Nuffer, Mountain View Nurseries, Inc., Troutdale, "Digger" advisory; Merv Belknap, publicity and advertising promotion; James Doty, Doty & Doerner, Inc., Portland, Oregon state agricultural research and advisory; Charles Drew, Drew's Nursery, Beaverton, Oregon bulb, florist and nursery council; Lynn Brooks, short course advisory; John Weiman, Oregon state department of agriculture, quarantine; Robert Mullison, A. McGill & Son, Fairview, transportation; Harold Miller, Miller Landscape Nursery, Milwaukie, highway; Sam Rich, Rich & Sons Nursery, Hillsboro, legislative; Paul Van Allen, nursery law revision; Pat Dering, convention program and entertainment, and Reed Vollstedt, Reed & Cross, Eugene, nominating.

C. H. P.

OREGON CHAPTERS MEET

The Columbia River chapter of the Oregon Association of Nurserymen met February 23. President Arthur Suhr, Mount Hood Nursery, Gresham, found the attendance heavy.

Pat Dering, Peterson & Dering, Scappoose, urged a joint meeting of various chapters in the Portland area in the near future. Frank Morishita, Fairdale Nursery Co., Troutdale, coordinator for the Multnomah "Parade of Gardens," said that 90 per cent of the plant material needed has been obtained. He urged others to participate. Considerable emphasis is to be placed upon the plant identification feature of the show, he said, in an effort to boost nursery stock sales.

Amos Smelser, manager of the timber management department, Mount Hood national forest, was the speaker of the evening. He said the multiple use of the national forest included wildlife, timber, livestock, water and recreation consideration. Income for the Mount Hood national forest was \$8 million in 1959 and \$9 million in 1960. He referred to the fertilization program of the forest and said that pellets had been used to good advantage. Fifty per cent of all planted seedlings will be fertilized in 1961, he said. Removal of Christmas trees in the national forest now is mostly illegal. However, the areas on power line right-of-ways are to be used in the future for Christmas tree production.

Executive Secretary Merv Belknap reported on the legislative action to date and said he had attended a recent meeting of the highway protection committee at which he emphasized that nurserymen sell beauty. Dan Schmidt, Schmidt Bros. Nursery, Troutdale, was appointed program chairman for the chapter for 1961.

At a recent meeting of the Willamette chapter of the O. A. N., held at Salem, a co-operative advertising program was suggested which would be partly underwritten by reserves of the chapter. The 6-month program would concentrate on Salem newspaper advertising and would be designed to encourage customers to "Patronize the Man Who Knows." Wallace Doerfler, F. A. Doerfler & Son, Inc., Salem, president, led the meeting.

The Clackamas chapter of the O. A. N. met at Seid's restaurant, Oregon City, recently, with Howard Smith, Four Mile Farm & Nursery, Canby, president, in charge of the meeting. The chapter is contemplat-

Dwarf Cannas Sell



PFITZER'S CHERRY-RED

The flowers are in long clusters and of a most pleasing soft shade of cherry-red. It is a free bloomer and makes an excellent showing from early summer until frost. Has fine green leaves and looks particularly well with a green background. Grows about 36 inches high and very desirable where a bold color effect is required. Does splendidly in tubs and makes fine contrast with white summer furniture.

PFITZER'S SHELL-PINK

A compact, husky plant with excellent rich, deep green foliage. The entire plant when in bloom is seldom over 30 inches high. The flower clusters are superb and show handsomely just above the ornamental leaves. A tiptop variety for planting in between hardy plants or an occasional clump in front of shrubs. A perfect tub specimen for porch or terrace. A beautiful shade of pink.

(Also Primrose-Yellow and Chinese-Coral Not Pictured)

FOUR COLOR PICTURES with EACH ORDER

Order from your jobber today!

If your jobber cannot supply, write to us for prices and color pictures.

SARVER NURSERY P. O. Box 237 San Marcos, Calif.



MITTS NURSERY, INC.

Potted Dianthus, ready to sell. Potted Petunias, blooming. 8c delivered; shipped anywhere in the U. S.

Bedding plants our specialty. Write for list.

Dianthus Specialists • **Loma Linda, Calif.**

ROSES

Top-quality, northern California, field-grown, patented and standard bush and tree roses. Write for list and prices.

ELMER ROSES CO.

4273 Riverside Dr.
Chino, Calif.

Have You Heard About

MY FAIR LADY?



RUEHL-WHEELER NURSERY CO., INC.
255 Ford Rd. San Jose, Calif.

QUALITY NURSERY STOCK

ACER PLATANOIDES

Faassen's Red-Leaved

Maple	Per 10	Per 100
6 to 8 ft., br.....	\$35.00	\$325.00
5 to 6 ft., br.....	25.00	225.00
8 to 9 ft., whips...	30.00	225.00
7 to 8 ft., whips...	25.00	210.00
6 to 7 ft., whips...	21.00	180.00
5 to 6 ft., whips...	16.00	140.00
4 to 5 ft., whips...	13.00	110.00
3 to 4 ft., whips...	10.00	85.00

Norway Maple

12 to 14 ft., br....	35.00	325.00
10 to 12 ft., br....	30.00	275.00
8 to 10 ft., br....	25.00	225.00
6 to 8 ft., br....	20.50	180.00
5 to 6 ft., br....	15.00	135.00
8 to 9 ft., whips...	10.50	100.00
7 to 8 ft., whips...	10.00	95.00
6 to 7 ft., whips...	9.50	90.00
5 to 6 ft., whips...	8.00	75.00
4 to 5 ft., whips...	6.00	55.00

Columnar Norway Maple

3-yr., 11 to 12 ft....	33.50	310.00
3-yr., 10 to 11 ft....	30.00	275.00
2-yr., 9 to 10 ft....	27.50	250.00
2-yr., 8 to 9 ft....	25.00	225.00
2-yr., 7 to 8 ft....	22.00	195.00
2-yr., 6 to 7 ft....	18.50	170.00
1-yr., 5 to 6 ft....	15.50	140.00
1-yr., 4 to 5 ft....	12.00	110.00
1-yr., 3 to 4 ft....	10.00	90.00

Drummond Norway Variegated Maple

6 to 8 ft., br.....	28.50	260.00
5 to 6 ft., br.....	25.50	210.00
8 to 9 ft., whips...	21.00	185.00
7 to 8 ft., whips...	20.00	175.00
6 to 7 ft., whips...	18.00	165.00
5 to 6 ft., whips...	14.50	130.00
4 to 5 ft., whips...	10.00	90.00

ACER PSEUDOPLATANUS

Improved Spaethi

12 to 14 ft., br....	37.50	350.00
10 to 12 ft., br....	32.50	300.00
8 to 10 ft., br....	27.50	250.00
6 to 8 ft., br....	22.50	200.00
5 to 6 ft., br....	16.50	150.00
6 to 7 ft., whips...	12.50	115.00
5 to 6 ft., whips...	10.00	90.00
4 to 5 ft., whips...	8.00	70.00

ACER RUBRUM

(Red Maple)

10 to 12 ft., br....	32.50	300.00
8 to 10 ft., br....	27.50	250.00
6 to 8 ft., br....	22.50	200.00
5 to 6 ft., br....	16.50	150.00
4 to 5 ft., br....	12.50	115.00

ACER SACCHARUM

MONUMENTALE

(Columnar Sugar Maple)

8 to 10 ft., br....	27.50	250.00
7 to 8 ft., whips...	25.00	225.00
6 to 7 ft., whips...	22.50	200.00
5 to 6 ft., whips...	20.00	175.00
4 to 5 ft., whips...	17.50	150.00
3 to 4 ft., whips...	15.00	125.00

BETULA ALBA

(European White Birch)

12 to 14 ft., br....	35.00	325.00
10 to 12 ft., br....	27.50	250.00
8 to 10 ft., br....	22.50	200.00
6 to 8 ft., br....	16.50	150.00
5 to 6 ft., br....	12.00	110.00
4 to 5 ft., br....	9.00	85.00
3 to 4 ft., br....	6.50	60.00

FRAXINUS QUADRANGULATA

(Blue Ash)

10 to 12 ft., br....	37.50	350.00
8 to 10 ft., br....	32.50	300.00
6 to 8 ft., br....	27.50	250.00
5 to 6 ft., br....	22.50	200.00
6 to 7 ft., whips...	18.00	165.00
5 to 6 ft., whips...	15.00	135.00
4 to 5 ft., whips...	12.00	105.00

Quantity Prices and Catalog
Upon Request



POWELL VALLEY NURSERY

210 S. E. Vista Ave.
Gresham, Ore.

Phone: MOhawk 5-3537

ing the promotion of landscaping by placing displays in banking institutions throughout the state, encouraging the use of home improvement loans to finance the landscaping.

C. H. P.

OREGON NOTES

Considerable impetus has been given to rose planting through the Royal Rosarians this year at Portland. Some of the ideas previously reported have been followed, such as the presentation of identical rosebushes to each Portland disk jockey and announcer on radio and TV. Each person, by any means he desires, is to strive for the first bloom on his contest rose. The winner will receive a 1-week trip to the beach for two, all expenses paid.

Garden sections of the Portland newspapers proclaimed the biggest public planting idea of all March 5. Each citizen who brings his rose bed up to 24 bushes will be given a free rosebush; for an increase to 48, two rosebushes; for an increase to 72, three rosebushes, and for an increase to 96, four rosebushes. Royal Rosarians will present and plant the free bushes. Henry Hausch, Roseway Nurseries, a member of the Royal Rosarians, has donated 1,000 rosebushes for the stunt.

A Name-the-Rose contest was instigated by Peterson & Dering, whereby citizens of the Portland area are being asked to submit names for consideration; the winning name will be used for a new fragrant pink hybrid tea rose developed by Peterson & Dering.

John Georges, Georges Gardens, Portland, was the subject of an illustrated story in the Oregon Journal Northwest Living magazine March 5.

Weed Control Services, Inc., Portland, will erect a new establishment near Tigard. The firm specializes in weed control spraying, trimming and clearing of right of ways.

The second annual Willamette Valley horticultural equipment display and show was held on the state fairgrounds at Salem March 3 and 4. Co-ordinator of the display was H. G. Huber, extension agricultural engineer specialist, Oregon State College, Corvallis.

J. Frank Schmidt & Sons, Troutdale, recently erected a 120x140-foot warehouse on southeast Stark street. The building will be used for shipping.

Gov. Mark Hatfield of Oregon signed a bill, recently passed by both branches of the Oregon legislature,

THE BEST YOU CAN BUY ANYWHERE

Baccara	Good News
Betzel's Pink	Grand Gala
Bacchus	Garden Party
Betty Prior	Golden Melody
Christopher Stone	Helen Traubel
Cardinal Richelieu	Ivory Fashion
Claude	Improved Lafayette
Dilys Allen	Love Song
Duquesa	Lady Trent
de Penaranda	Margaret
Ethel Sanday	Mrs. Charles Lamp-
Floradora	lough
Fire King	Moonbeam
Golden Masterpiece	Minerve
Golden Scepter	Monte Carlo

JOHN CARRIGG & SONS

Nationally Famous Roses

Jefferson, Ore.

MILTON NURSERY CO.

Since 1878

MILTON-FREEWATER, ORE.

Flowering, Ornamental, Shade Trees and Shrubs, Fruit Trees, Fruit Tree Seedlings and Angers Quince Rooted Cuttings.

Licensed Growers of

Crimson King Maple (Pat. No. 735)

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Send for Our Price List

Combination cartlots for eastern distributing points.

ROSES OLD and NEW

Fine-quality, two-year plants budded on Multiflora in over 250 varieties.

Write for our list explaining
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MT. HOOD NURSERY

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GRESHAM, ORE.

MAHONIA AQUIFOLIUM

(Oregon-Washington Holly Grape)

A very beautiful evergreen shrub with large, glossy leaves and yellow flowers conspicuously appearing in spring and followed by dark blue berries; a most satisfactory broad-leaved evergreen for any place in the United States.

	Per 100	Per 1000
1-yr., S.	\$ 5.00	\$ 40.00
2-yr., S.	7.00	60.00
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SEEDLINGS have been root-pruned to insure a good root system. The 3-yr. seedlings have also been cut back, to make a more bushy, compact plant.

TERMS: Check is requested before shipment or will ship C.O.D., if preferred. All orders shipped by railway express unless otherwise stated.

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Chenoweth's

MOUNT VERNON NURSERY

Mount Vernon, Wash.

(ALL ORDERS SHIPPED SAME
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DOERFLER SPECIALTIES

SHEARED

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Many nurserymen tell us we
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SHEARED

GLOBE AND PYRAMID BUXUS SEMPERVIRENS

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Also Dwarf Suffruticosa and general nursery stock, including large shade and flowering trees.

We have shipped in carlots to many parts of the United States for years.

F. A. DOERFLER & SON, INC.
250 Lancaster Dr., N. E.
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SHADE and FLOWERING TREES

Broad-Leaved and Coniferous
Evergreens
B&B or Container-Grown
Write for list.

TILLSTROM NURSERY

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DOTY & DOERNER, Inc.

6691 S. W. CAPITOL HIGHWAY
PORTLAND 1, OREGON

WHOLESALE

GENERAL NURSERY STOCK

which will officially make Oregon State College, Corvallis, a university. The change becomes effective 90 days after legislature adjournment.

Roseway Nurseries, Beaverton, has donated roses which will be used in a dedicatory planting at Tacoma, Wash., April 7. Royal Rosarians from Portland will make the journey to Tacoma for the planting. L. H. (Bud) McGuire made arrangements for the event.

The Clackamas River farm of Brownell Holly Farms, Milwaukie, is being used by the United States Department of Agriculture department of bird and rodent control in an effort to establish control method for starlings. The obnoxious birds during the past year partially ruined the 8-acre holly ranch of Jack Stump and caused considerable damage to other farms. According to Ambrose Brownell, owner of Brownell's Holly Farms, several million birds swoop into the trees each evening, with as many as 500 to 1,000 birds in a large tree. The droppings bespatter foliage and berries, making them unsightly. In time the tree is completely defoliated. The accumulation of nitrogen on the ground below the tree is often so strong that the tree dies. The poisons which have been used to date are harmful to animals, other birds and humans. The pilot program being carried on at the Brownell farm seeks a method which is safe and economical in exterminating the birds. Experts are now determining the extent of control expected from the spraying program now underway in selected trees. Cracker shells are exploded nightly to disturb the starlings and cause them to land in the control trees. Workers carrying out the spray program wear special suits to protect themselves from the contact spray which detoxifies in 10 days.

Wayne (Duffy) Arnold, Arnold Clematis Nursery, Milwaukie, provided the program for ladies' night of the Milwaukie Kiwanis Club, Milwaukie, March 14. He showed pictures which he took in Hawaii.

In an effort to find the secret of insect resistance, L. C. Terriere, biochemist, Oregon State College, is using common houseflies. Early experiments show that ground tissue from freshly killed flies can detoxify naphthalene in a test tube — so the defense mechanism must be effective even when it has been removed from the fly, according to Mr. Terriere. It is hoped that experiments will lead to development of chemicals against which insects will be defenseless.

C. H. P.



**OREGON GROWN
FINE LEAF**

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**MEASURE UP TO
QUALITY**

**A BASIC GRASS
IN BETTER LAWN
MIXES**

- ☆ FINE TEXTURED
- ☆ DURABLE
- ☆ WIDELY ADAPTED
- ☆ PRODUCE DENSE SOD
- ☆ DEEP ROOTED
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CHEWINGS
& CREEPING
RED FESCUE
COMMISSION**

**605 Weatherly Bldg.
Portland 14, Oregon**

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Rate: 40 cents per line, each insertion.

Minimum order, \$4.00.

Instructions for the May 1 issue must be received by Friday, April 14.

Forms for May 15 issue will close Friday, April 28.

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AZALEAS
IN 2 1/4-IN. PEAT POTS
Well-established, well-branched.
LOW, LOW

PRICES
in these varieties.

Schlippenbachii
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Exbury Hybrids
Carol (Gable)
Rosebud (Gable)
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Rose Greeley (Gable)
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Campfire (Gable)
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PHONE COLLECT,
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for information,
if interested in 1000 or more.
GARDNER'S VILLAGE
456 Hempstead Turnpike
West Hempstead, L. I., N. Y.

AZALEA LINERS

Heavy, well-shaped 1-yr. transplants,
available April 1, 1961.

DWARF AND SEMI-DWARF VARIETIES
Christmas Cheer
Coral Bells
Hexe
Hinodégirl
Hino-Crimson
Lentengroot
Macrantha

Sweetheart Supreme
\$12.50 per 100, \$110.00 per 1000,
\$1000.00 per 10,000.

INDICA VARIETIES

Daphne Salmon
Elegans
Fischer Pink
Formosa
George L. Taber

Judge Solomon
King's White
Mrs. G. G. Gerbing
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\$12.50 per 100, \$110.00 per 1000,
\$1000.00 per 10,000.

FLOWERWOOD NURSERY, INC.
R. 1, Box 130 Mobile, Ala.

SATISFACTION GUARANTEED

DELIVERY FROM APRIL 1
Sheared, well-branched plants with
healthy root systems and tops. From fumig-
ated beds.

KURUME VARIETIES
CHRISTMAS CHEER PINK PEARL
CORAL BELLS SALMON BEAUTY
FASHION SHERWOOD RED
HEXE SNOW
HINO-CRIMSON SWEETHEART
HINODEGIRI SUPREME

Per 100 Per 1000
4 to 6 ins., from cold frames. \$15.00 \$125.00

FISCHER'S PINK MRS. G. G. GERBING

FORMOSA PRES. CLAY

GEO. L. TABER PRIDE OF MOBILE

JUDGE SOLOMON SALMON, LAWSAL

6 to 8 ins., from cold frames. \$15.00 \$125.00

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BECKY AZALEA

U. S. pat. No. 1699.

ROOTED CUTTINGS (minimum 100).
100 500 1000

Each 25c 20c 18c

TRANSPLANTS (minimum 50).
8 to 10 breaks 35c each

12 to 15 breaks 45c each

(No shipments after May 10, 1961.)

DORMANT PLANTS

(For shipment September 1961.)
Each, in lots of 100 250 500 1000

4 to 6 ins. \$0.70 \$0.55 \$0.63 \$0.60

6 to 8 ins. 1.20 1.10 1.00 .90

8 to 10 ins. 1.45 1.35 1.25 1.15

Prices are F.O.B. Secane and include pat-
ent label for each plant purchased.

VOSTERS NURSERIES & GHSES., INC.,
Secane, Pa.

EXBURY HYBRID AZALEAS

Named varieties only: Devon, Fireball,
Gog, Harvest Moon, Hotspur Red, Pink De-
light, Satan, Scarlet Pimpernel, Tunis, Per-
sil, 1-yr., transplanted cuttings and 1-yr.
transplanted grafts. Bare-root or with soil
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P. O. Box 339 New York 10, N. Y.

AZALEAS, TRANSPLANTS

Hinodégirl Sherwood Orchid
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Snow Montrose
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Corsage Sun Star
Salmon Beauty Boudoir
Ledifolia alba Bond Street
Mayfair

\$14.00 per 100, \$125.00 per 1000.

No shipping charge. Also field-grown,
budded Azaleas.

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Norman Ave., Riverside Pk., Riverside, N. J.

Phone BELmont 5-2210

AZALEAS

A million extra nice, well-branched, kur-
ume and indica liners, grown in solid peat,
ready for immediate shipment.

Christmas Cheer Hinodégirl
Coral Bells Rosebud
Hampton Beauty Salmon Beauty
Hexe Sweetheart

Formosa Pride of Mobile
King's White Pride of Dorking
Mrs. G. G. Gerbing Southern Charm

\$15.00 per 100, \$125.00 per 1000.

CASADABAN'S NURSERIES

Abita Springs, La.

AZALEAS

Transplants, \$15.00 per 100.
6 to 8 ins., field-grown, \$60.00 per 100.

Pickup only.

DREAHOOK AZALEA FARM

Dreahook Rd. Branchburg, N. J.

Mail Address: R. D. 4, Somerville, N. J.

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HINO-CRIMSON, GLENN DALES, ETC.

Thousands of beautiful Kurume, and other
evergreen Azaleas, including newer varieties.
Dense, bushy, well-budded. Selling fast—
order now. Landscape sizes.

THE TANKARD NURSERIES

Exmore, Virginia

AZALEAS, ROOTED CUTTINGS

\$7.00 per 100: Coral Bells, ledifolia alba;
Othello, Sherwood, Lavender, Pink Pearl,
hinodégirl, Mrs. Fischer, pink; Macrantha,
Snow. Price list of Azaleas, Heathers, perenn-
ials, on request.

AVALON MOUNTAIN GARDENS, Dana, N. C.

CONTAINER-GROWN GLENN DALE

AZALEAS

4-yr.-old plants, bloom buds, in 6 colors,
\$1.15 each, in lots of 50 or more.

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Phone UL 3-8649

AZALEA HINODEGIRI, FIELD-GROWN

15 to 18 ins., B&B,

\$1.25 each, in lots of 50 or more.

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Ind. Highway 662 Newburgh, Ind.

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AZALEAS

Seeds, cuttings, seedlings and transplants.
Hybrids and species in \$1.00 packets, flats
and peat pots. Free packing. Ask for list.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

AZALEAS FOR LANDSCAPING

8 to 36 ins., field-grown. All colors.

Write for trade list.

F. A. JONES & SONS

Phone LI 2-0044 Oceanport, N. J.

AZALEAS

For forcing and landscape planting.

Write for our trade list.

THE LEVICK NURSERY CO.

R. F. D. 3 Bridgeton, N. J.

BARBERRIES

RED-LEAVED BARBERRIES

(Atropurpurea) 3-yr. seedlings, twice
trimmed.

6 to 10 ins. \$40.00 per 1000

9 to 12 ins. 50.00 per 1000

Cash with order.

Sold in Michigan only.

CENTER ROAD NURSERY

ALEX HEINZ Saginaw, Mich.

RED-LEAVED BARBERRY

(Atropurpurea) 2-yr. seedlings.

Per 100 Per 1000
12 to 18 ins., branched \$12.00 \$110.00

18 to 24 ins., branched 16.00 140.00

RED-LEAVED BARBERRY

4-yr. trans. Heavy stock.

9 to 12 ins. 24.00 200.00

12 to 18 ins. 28.00 240.00

18 to 24 ins. 32.00 280.00

GREEN BARBERRY

(Thunbergii) 4-yr. transplants.

Heavy stock.

9 to 12 ins. 20.00 160.00

12 to 18 ins. 24.00 200.00

18 to 24 ins. 28.00 240.00

2 to 2 1/2 ft. 32.00 280.00

Our Red Barberry is one of the finest
strains in the U.S.A.

DANEGGER'S HI-WAY NURSERY, INC.

Box 336B Milford, Del.

BEECHES

FAGUS SYLVATICA, 2-YR. GRAFTS

Each, 100

Asplenifolia (Fernleaf Beech),

18 to 24 ins. \$2.00

Riversal (River's Purple Beech),

18 to 24 ins., heavy 1.75

WHERE QUALITY EXCELS. NO CHARGE
FOR PACKING.

C. HOOGENDOORN, NURSERYMAN

408 Turner Rd. Newport, R. I.

BEGONIAS

TUBEROUS-ROOTED BEGONIAS

Large double (Camellia-flowering), 8 colors.

EXHIBITION size, 2 1/2-in. up. \$18.00 \$160.00

2 to 2 1/2-in. 15.00 140.00

1 1/2 to 2-in. 10.00 90.00

1 1/4 to 1 1/2-in. 6.50 55.00

DOUBLE FIMBRIATA (Carnation),

6 colors.

DOUBLE Camellia, red with white edge.

DOUBLE Marmorata, red, spotted white.

TOP size \$16.00 \$150.00

FIRST size 12.00 110.00

SECOND size 7.00 60.00

BICOLOR, yellow mixed with copper

and white.

PENDULA (hanging basket type), 6 colors.

TOP size \$18.00 \$160.00

FIRST size 14.00 130.00

SECOND size 8.50 75.00

MULTIFLORAS, scarlet, yellow,

apricot, copper, 1 to 2-in. \$12.00 \$110.00

MULTIFLORA Maxima (NEW),

6 colors, 1 to 2-in. \$13.00 \$120.00

PICTA, CRISTATA and MARGINATA,

1 1/4 to 2-in. \$13.00 \$120.00

Minimum order \$10.00.

VERONA GARDENS, TED GREVERS

Route 5 Battle Creek, Mich.

BERRY PLANTS

RED RASPBERRIES

Gatineau, Earlied (very early); Latham,
Muskoka, Canby, Thames and New Hamp-
shire (mid-season); Durham and September

Everbearing, up to 3/16-in., \$65.00 per 1000;
over 3/16-in., \$75.00 per 1000. Bailey Black-
berry, \$12.00 per 100.

Above sent F.O.B. shipping point.

Pack-out prices on request.

Write for free catalog and wholesale price
list describing over 70 varieties of small fruit
plants, latest and best in Strawberry plants.

WALTER K. MORRIS & SON

Bradford, Mass.

BLUEBERRY PLANTS

Bed-grown in the best type of Blueberry
soil. Many sizes in both new and standard
varieties. Ask for wholesale prices.

See our display ad on page 83.

KRIEGER'S WHOLESALE NURSERY

Bridgman, Mich.

BLUEBERRIES 10 100

3-yr., 12 to 18 ins. \$5.50 \$45.00

4-yr., 18 to 24 ins. 7.00 60.00

Atlantic, Burlington, Jersey,

Stanley, Weymouth,

WAYNESBORO NURSERIES

Waynesboro, Va.

NEW INTERLAKEN YELLOW SEEDLESS GRAPE, developed by the N. Y. Experiment Station, produces golden yellow Grapes of high quality; berries are rather small; good bearer, earlier than Concord. NOT hardy north of a line north of Missouri, 2-yr. plants, \$1.00 each; 2 for \$1.90. Plants that die replaced at half price.

ROYAL SEEDLESS BLUE GRAPE. Highest quality Grape in existence. Nearly as large as Concord, but much sweeter, harder and heavier bearing. Just as vigorous and healthy. Ripens with Moore's Early. Plant pat. 1681. 2-yr. No. 1, 3 for \$6.00. Plants that die replaced at half price.

GREAT NORTHERN NEW BLUE SEEDLESS GRAPE, equal to the Royal seedless in every respect and superior in many respects; highest quality Grape in existence; as large as Concord, but sweeter, heavier bearing, earlier; hardy as a wild grape. 2-yr. plants, 1 for \$1.00; 3 for \$2.70. Plants that die replaced at half price. We tested out the Concord seedless from the East, but they only grew as big as a pea. Plants not prepaid.

SCHWAB GOOSEBERRIES, large as Plums. New seedlings (world's largest Gooseberry). Berries often 1 1/2-in. in dia.; highest quality, hardy, very productive, very sweet, 1-yr., heavy, \$4.50 per 10; 2-yr., light, \$6.00 per 10; bearing size, \$7.50 per 10. 5 per cent discount for cash or free baling. Plants that die replaced at half price. Plants not prepaid.

SCHWAB FRUIT FARM & NURSERY
220 N. 5th St., Mankato, Minn.

GOOSEBERRIES
Plants, liners and cuttings.
CURRENTS, Red Lake and Wilder.
GRAPEVINES, many varieties, liners and cuttings.
BERRY PLANTS, red varieties and Black Berries.

GROWING FOR THE WHOLESALE TRADE SINCE 1890.

THE F. E. SCHIFFERLI & SON NURSERIES, INC.
Fredonia, N. Y.

LATHAM RASPBERRY PLANTS

2-yr. bearing-age transplants, No. 1, heavy grade, state inspected, \$85.00 per 1000. F.O.B.

BRIDGE VIEW NURSERY
Waterford Works, N. J.

BLACKBERRY PLANTS

EBONY KING and select strain **ELDORADO**, true-to-name, no non-fruiting plants. Ask for wholesale trade list.

See our display ad on page 83.

KRIEGER'S WHOLESALE NURSERY
Bridgman, Mich.

BULBS and TUBERS

TUBEROUS BEGONIAS

Double-flowered **CAMELLIA** type, 8 colors.

Per 100 Per 1000

1 1/4 to 1 1/2-in. \$6.50 \$55.00

1 1/2 to 2-in. 10.00 90.00

2 to 2 1/2-in. 15.00 135.00

2 1/2-in. up, mammoth 20.00 175.00

Double-flowered **FIMBRIATA** (Carnation), 6 colors.

1 1/4 to 1 1/2-in. \$7.50 \$65.00

1 1/2 to 2-in. 13.50 125.00

2-in. up 16.50 145.00

PENDULA (hanging basket type), 6 colors

1 1/4 to 1 1/2-in. \$8.00 \$70.00

1 1/2 to 2-in. 13.50 125.00

2-in. up 17.50 165.00

PICOTEE, bicolor red and white double flowered.

1 1/4 to 2-in. \$13.50 \$125.00

MULTIFLORA HYBRIDS, reds, salmons, yellows.

MULTIFLORA MAXIMA (new), 6 colors.

1-in. up \$13.50 \$125.00

FANCY-LEAVED CALADIUMS

Over 100 of the finest new commercial named varieties in regular and lance-leaved type. Send for our colored charts with cultural directions.

No. 3, 3 1/4 to 1-in. \$6.00 \$50.00

No. 2, 1 to 1 1/2-in. 10.00 90.00

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Jumbo, 2 1/2 to 3 1/2-in. 23.00 220.00

Mammoth, 3 1/2-in. up 35.00 325.00

Minimum order \$10.00.

Include postage charges when requesting shipments by parcel post.

LOUIS DANK

1170 Broadway New York 1, N. Y.

DAHLIA ROOT BARGAIN OFFER TO YOU

100 large flowering, individually packaged tubers, FOR ONLY \$18.98.

10 Commando, violet; 10 Dorothy Tooker, white; 10 Commodore, yellow; 10 Golden Treasure, gold; 10 Rose Fallon, golden; 10 D-Day, pink; 10 Avalon, yellow; 20 Rose Glory, rose; 10 Boutillier, red.

BULK tubers of above, packed in 10 separate bags, FOR ONLY \$15.98.

MERLE PAYNE GARDENS

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Cannas, northern-grown; **The President**, Red and Vel. Humbert, Mme. Crozy, Humbert, R. Wallace, Bulbs, \$50, \$100.00; 1000, \$60.00, f.o.b. Adams Flower Gardens, New Martinsville, W. Va.

TUBEROUS BEGONIAS

Belgium-grown, clean healthy tubers.

Double flowering **CAMELLIA** type. Choice 8 colors.

1 1/4 to 1 1/2-in. 80, 10 each color. \$3.00 postpaid

1 1/2 to 2-in. 80, 10 each color. 10.00 postpaid

2-in. up, 80, 10 each color. 13.50 postpaid

Pendula (hanging basket type), 6 colors, or marginata.

1 1/4 to 2-in. 60, 10 each color. \$10.00

2-in. up, 60, 10 each color. 12.50

Lots of 240 or more, discount 10 per cent.

VAN ENGEL'S NURSERY

206 Richard Ave. Kalamazoo 33, Mich.

GLOXINIAS

In LEADING varieties.

Per 100 Per 1000

EXHIBITION size, 2 1/2-in. up, \$28.00 \$260.00

2 to 2 1/2-in. 23.00 220.00

1 1/2 to 2-in. 16.00 150.00

Minimum order \$10.00.

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Route 5 Battle Creek, Mich.

MICHIGAN-GROWN GLADIOLI

We would like to have you try our bulbs.

These mixtures contain many good colors.

Per 1000 Gladiolus bulbs Nos. 1 2 3

Giant EXHIBITION MIXTURE \$25 \$20 \$15

Fancy BLENDED MIXTURE. 30 24 19

Net cash with order. F.O.B. Dowagiac.

GEO. W. HUNTER, Grower

Route 3 Our 44th year. Dowagiac, Mich.

QUALITY GLADIOLUS BULBS

Our 1960-1961 wholesale price list is now available. We have a select list of 78 different varieties to offer. A card or letter will put you on our mailing list.

E. S. KNISLEY'S SONS

R. R. 3, Wichita Rd. St. Anne, Ill.

Cannas, 2 to 5-eye divisions, grown on sandy, irrigated and fertilized land; Red King Humbert, Yellow King Humbert, City of Portland, pink, \$5.00 per 100, \$45.00 per 1000.

The President, red, \$6.00 per 100, \$55.00 per 1000. Cash or check with order, please.

Ray's Feed, Seed and Nursery, Box 1305, Levelland, Tex.

Dahlias, exhibition varieties: Orfeo, P. of H. and Bronze I. C.; Jersey Beauty, D-Day, Huge Bronze, Orchid, Red, Gold F. D., 100, \$15.00; 1000, \$120.00. Rainbow Mix, 100, \$12.00; 1000, \$100.00. Adams Flower Gardens, New Martinsville, W. Va.

HOLLAND AND DOMESTIC BULBS

FOR SPRING AND FALL

Write for wholesale price list.

DeGROOT BULB CO.

12-02 Ellis Ave. Fair Lawn, N. J.

BUXUS

Buxus sempervirens (Boxwood), 8 to 10

plants, 2-yr., \$9.00 per 100, \$85.00 per 1000; 1-yr.

plants, 12 to 14 ins., \$10.00 per 100, \$90.00 per 1000.

Spring Acres Nursery, Morris, Ga.

CHESTNUTS

Chinese Chestnut trees, Abundance strain.

Per 10 Per 100

12 to 18 ins., T. \$3.50 \$30.00

18 to 24 ins., T. 5.00 40.00

2 to 3 ft., T. 7.00 60.00

3 to 4 ft., T. 10.00 90.00

4 to 5 ft., T. 14.00 125.00

50 trees at the 100 rate.

Kerstetter's Nursery, 2743 Boas St., Harrisburg, Pa.

CHINESE CHESTNUTS, SELECTED STRAIN

All branched trees.

Each, 1-9 10-29 30 up

2 to 3, 3-yr. \$0.95 \$0.85 \$0.75

3 to 4, 3-yr. 1.20 1.10 1.00

4 to 5, 4-yr. 1.45 1.35 1.25

Write for complete catalog.

COMMERCIAL NURSERY CO.

Decherd, Tenn.

CHRYSANTHEMUMS

TESTED HARDY GARDEN MUMS

Top-notch varieties selected from 4 years

of field trials. Strong, well-rooted cuttings

of both new and older varieties, 8c each per

10; 7c each per 25; 6c each per 50; 5 1/2c each

per 100; 5c each per 1000. Send for list.

HOUSE OF WESLEY NURSERY DIVISION

R. R. 1 Bloomington, Ill.

HUSKY GARDEN ROOTED CUTTINGS

Cream of the crop.

Originating from ALL the breeders.

With sales magic and strong roots.

Most profitable LIST in the trade.

FARM OF PASCHKE, NORTH EAST, PA.

HARDY GARDEN MUMS

Strong rooted cuttings, \$6.00 per 100, \$55.00

per 1000. Send for list of 150 good varieties.

THON'S PERENNIAL GARDENS

25 W. Golf Rd. Arlington Heights, Ill.

Dept. A Phone HE 7-3184

HARDY CHRYSANTHEMUMS

Rooted cuttings. Send for spring list.

SUNBURY GREENHOUSES

Warner Breece Sunbury, O.

HARDY GARDEN CHRYSANTHEMUMS

Field divisions.

CUT AND DECORATIVE

Chris Columbus, large white

Delight, large golden yellow

Red Velvet, dark velvet red

Pink Opal, 4-in. peach-pink

Bonfire, bronze Pompon

Royal Robe, large purple

Pathfinder, Carnation-flowered yellow.

LOW-GROWING CUSHIONS

Grace, white cushion

Lomona, deep yellow Pompon

Santa Claus, bright red cushion

Orchid Helen, double orchid-pink

Orange Cushion, orange-bronze

Purple Cushion, purple

Cutie, cherry-red Button

Fuchsia Fairy, reddish pink

Our divisions are selected from the most

vigorous plants grown in the field. These

plants have been wintered over, are well-

rooted and have been hand trimmed. Ready

for field planting.

In shipment, the roots of the plants are

protected with sphagnum moss and the tops

with excelsior. Each variety is carefully

labeled.

PRICES

Per 100 \$5.00

Per 500 22.50

Per 1000 40.00

Per 1000, for 10,000 or more 35.00

W. S. YOE NURSERIES

Madison, O.

Garden Mums, rooted cutting list now

ready. Extra discount on early orders. Send

for yours today.

Fairview Nursery, Coon Rapids, Ia.

Hardy Mums, rooted cuttings, pot plants.

Ask for list of finest new varieties and better

older ones. Home Nursery, Cuba, Kan.

CLEMATIS

CLEMATIS VINES

Large flowering, from 4-in. pots.

Blooming size, 1-yr. frame,

85c each.

Gypsy Queen, purple

Lanuginosa candida, white

Ernst Markham, red

Lawsoniana, sky-blue.

Ville de Lyon, red.

Plants shipped bare-root.

Cash with order.

FOUR STAR NURSERY

8215 238th S. W. Edmonds, Wash.

CLEMATIS VINES

QUALITY LARGE-FLOWERING HYBRIDS

20 OUTSTANDING VARIETIES

AVAILABLE

FOR SPRING AND FALL SHIPMENTS

FROM 4-IN. 3-IN., 2 1/2-IN. POTS

GREENHOUSE-GROWN

STERILIZED PRODUCTION

WRITE FOR COMPLETE LIST

ARTHUR H. STEFFEN, INC.

1253 Fairport Rd., Box 84 Fairport, N. Y.

DELPHINIUMS

DELPHINIUMS

ALL VARIETIES, INCLUDING PACIFIC

HYBRIDS, IN ALL COLORS AND MIXED.

PLANTS GROWN IN OPEN FIELDS.

PROPERLY SPACED FOR ROOT AND

PLANT DEVELOPMENT, UNDER IRRIGA-

TION. ALL SAND-GROWN. ORDER NOW

FOR IMMEDIATE SHIPMENT AS WELL

AS SPRING DELIVERY. SEND FOR NEW

WHOLESALE PERENNIAL CATALOG

COVERING MANY VARIETIES.

RICHARDS GARDENS

Box AN Plainwell, Mich.

2 1/2-IN. GIANT PACIFIC DELPHINIUMS

Astolat, Galahad, Blue Bird, Summer

Skies, Black

DOGWOOD—Continued

CORNUS FLORIDA RUBRA (Pink Dogwood)		
Northern-grown, sheared tops.		
3 to 4 ft. B&B	.....	\$ 3.75
4 to 5 ft. B&B	.....	5.00
5 to 6 ft. B&B	.....	6.50
6 to 7 ft. B&B	.....	8.00
7 to 8 ft. B&B	.....	15.00

BROOKVILLE NURSERIES
Box 53, Northern Blvd., Glen Head, L.I., N.Y.

EUONYMUS

EUONYMUS LINERS ROOTED CUTTINGS from open frame.		
	Per 100	Per 1000
E. fortunei coloratus	.....\$6.50	\$45.00
E. patens	.....6.50	45.00
E. patens, small leaf	.....6.50	45.00

FOX NURSERY, HUMANSVILLE, MO.

EVERGREENS, Liners

POTTED FIELD LINERS		
	Per 100	Per 1000
Taxus cuspidata		
2-yr. seedlings, 4 to 6 ins.	\$ 8.00	\$ 75.00
3-yr. seedlings, 8 to 12 ins.	12.00	100.00
T. 10 to 15 ins.	35.00	300.00

Special discount on large quantities.

Taxus media Adams

2-yr. 2 1/4-in. Rose pots, 8 to 12 ins.\$24.00 \$220.00

4-yr. TT, field, 12 to 18 ins. 40.00 350.00

Taxus media andersoni

2-yr. 2 1/4-in. Rose pots, 8 to 12 ins.25.00 225.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Taxus media browni

2-yr. 2 1/4-in. Rose pots, 8 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 40.00 350.00

4-yr. TT, field, 12 to 15 ins. 50.00 450.00

Taxus cuspidata (seedling-grown)

4-yr. 2 1/4-in. Rose pots, 8 to 12 ins.25.00 220.00

8 to 12 ins.25.00 220.00

5-yr. TT, field, 12 to 15 ins. 50.00 450.00

Taxus media clifforti

2-yr. 2 1/4-in. Rose pots, 8 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 40.00 350.00

Taxus cuspidata

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.24.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 45.00 400.00

5-yr. TT, field, 12 to 15 ins. 65.00 500.00

Taxus cuspidata improved

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

Taxus media halliana

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.27.50 250.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

Taxus media hatfieldi

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

Taxus media hatfieldi No. 18

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 50.00 450.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Taxus media heasleyi

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.27.50 250.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

Taxus media hickii

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 50.00 450.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Taxus media hickii

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 50.00 450.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Taxus media hickii

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 50.00 450.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Taxus media hickii

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 50.00 450.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Taxus media hickii

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 50.00 450.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Taxus media hickii

2-yr. 2 1/4-in. Rose pots, 6 to 12 ins.25.00 220.00

(Continued from previous column)

3-yr. TT, field, 12 to 15 ins. 35.00 300.00

4-yr. TT, field, cut backs, 12 to 18 ins.45.00 400.00

5-yr. TT, field, cut backs, 12 to 18 ins.65.00 500.00

Thuja occ. American

4-yr. TT, field, cut backs, 12 to 30 ins.75.00 650.00

Thuja occ. elegantissima

3-yr. TT, field, 12 to 15 ins. 35.00 300.00

Thuja occ. Hetz's Wintergreen

3-yr. TT, field, 12 to 15 ins. 35.00 300.00

4-yr. TT, field, cut backs, 12 to 24 ins.50.00 450.00

Thuja occ. pyramidalis

3-yr. TT, field, 12 to 15 ins. 35.00 300.00

Thuja occ. woodwardi

1-yr. 2 1/4-in. Rose pots, 4 to 6 ins.20.00 175.00

3-yr. TT, field, 8 to 12 ins. 35.00 300.00

4-yr. TT, field, 12 to 15 ins. 45.00 400.00

Ilex crenata hetzi

3-yr. TT, field, 6 to 12 ins. 35.00 300.00

4-yr. TT, field, 10 to 15 ins. 40.00 350.00

Ilex crenata rotundifolia

4-yr. TT, field, 8 to 12 ins. 35.00 300.00

5-yr. TT, field, 12 to 15 ins. 45.00 400.00

5-yr. TT, field, 12 to 15 ins. 75.00 650.00

Ilex crenata stokesi, pat. 887

4-yr. TT, field, 4 to 6 ins. 40.00 350.00

5-yr. TT, field, 6 to 12 ins. 50.00 450.00

The above a partial list of liners, complete catalog on request.

HEASLEY'S NURSERIES

247 Freepost Rd. Butler, Pa.

ORNAMENTAL LINERS

Taxus, Adams

1-yr. 2 1/4-in. pots.\$18.00 \$170.00

2-yr. 2 1/4-in. pots.24.00 230.00

3-yr. TT35.00 325.00

Taxus andersoni

1-yr. 2 1/4-in. pots.18.00 170.00

2-yr. 2 1/4-in. pots.24.00 230.00

3-yr. TT35.00 325.00

4-yr. TT42.50 400.00

Taxus browni

1-yr. 2 1/4-in. pots.18.00 170.00

2-yr. 2 1/4-in. pots.24.00 230.00

3-yr. TT35.00 325.00

4-yr. TT42.50 400.00

Taxus cuspidata

1-yr. 2 1/4-in. pots.17.00 160.00

2-yr. 2 1/4-in. pots.22.00 210.00

3-yr. TT35.00 325.00

4-yr. TT42.00 400.00

5-yr. TT62.50 600.00

Taxus hicksi

1-yr. 2 1/4-in. pots.18.00 170.00

2-yr. 2 1/4-in. pots.24.00 230.00

3-yr. TT35.00 325.00

4-yr. TT42.00 400.00

5-yr. TTT62.50 600.00

Taxus hunnewelliana

2-yr. 2 1/4-in. pots.24.00 230.00

3-yr. TT37.50 350.00

4-yr. TT45.00 425.00

Ilex convexa

3-yr. TT37.50 350.00

4-yr. TT45.00 425.00

Ilex hetzi

3-yr. TT37.50 350.00

4-yr. TT45.00 425.00

Ilex rotundifolia

3-yr. TT35.00 325.00

4-yr. TT42.50 400.00

Ilex stokesi, pat. No. 887

1-yr. 2 1/4-in. pots.25.00 225.00

2-yr. 2 1/4-in. pots.27.50 250.00

3-yr. TT37.50 350.00

EVERGREEN SEEDLINGS

Per 100 Per 1000

Scotch Pine

2-yr. seedlings, 2 to 4 ins.\$2.00 \$ 7.50

2-yr. seedlings, 4 to 8 ins.4.00 20.00

3-yr. seedlings, 6 to 12 ins.4.00 20.00

3-yr. seedlings, 8 to 14 ins.4.00 20.00

French Scotch Pine

2-yr. seedlings, 1 to 3 ins.2.00 7.50

2-yr. seedlings, 3 to 6 ins.4.00 20.00

Spanish Scotch Pine

2-yr. seedlings, 1 to 3 ins.2.00 7.50

2-yr. seedlings, 3 to 6 ins.4.00 20.00

2-yr. seedlings, 4 to 8 ins.5.00 25.00

White Pine

2-yr. seedlings, 1 to 2 ins.2.00 10.00

2-yr. seedlings, 2 to 5 ins.3.00 15.00

Mugho Pine

3-yr. seedlings, 1 to 3 ins.7.00 35.00

Austrian Pine

2-yr. seedlings, 1 to 3 ins.2.00 7.50

2-yr. seedlings, 3 to 5 ins.3.00 15.00

Douglas Fir

3-yr. seedlings, 2 to 4 ins.3.00 15.00

3-yr. seedlings, 4 to 8 ins.6.00 30.00

Colorado Blue Spruce

3-yr. seedlings, 2 to 4 ins.2.50 12.50

3-yr. seedlings, 4 to 8 ins.5.00 25.00

Norway Spruce

2-yr. seedlings, 2 to 4 ins.2.00 10.00

2-yr. seedlings, 4 to 8 ins.4.00 20.00

We also have transplants in many of these items. Please write for complete list.

TERMS: No charge for packing. 25 per cent with order, balance C.O.D. 250 of a variety at 1000 rate. Special quotations on large orders.

HEASLEY BROS. NURSERY

R. D. 1, Box 218 Greensburg, Pa.

Phone LA 7-5632

SPRUCE, SEEDLINGS AND LINERS

White Spruce, 3-yr., 4 to 10 ins. \$25.00 per 1000; 4-yr. (2-3), 6 to 12 ins., \$40.00.

Colorado Blue Spruce, 4-yr. (2-2), 4 to 8 ins., \$40.00. No packing charge. Cash.

DECKER EVERGREEN NURSERY

R. D. 1 Cadillac, Mich.

EVERGREEN LINERS

Per 100 Per 1000

GLOBE ARBORVITAE

woodwardi, dark green, 1-yr. transplants, 4 to 6 ins.\$30.00 \$250.00

Hovey's, green; 1-yr. transplants, 4 to 6 ins.25.00 200.00

2-yr. transp. 6 to 8 ins.40.00 300.00

PYRAMIDAL ARBORVITAE

compacta, green, 1-yr. transplants, 5 to 7 ins.35.00 300.00

JUNIPER, Blue Pfitzer, (chinesis hetzi), 1-yr. transplants, 5 to 7 ins.25.00 200.00

JUNIPER, Irish, 1-yr. transplants, 4 to 6 ins.30.00 250.00

JUNIPER, Andorra, 1-yr. transplants, 4 to 6 ins.30.00 250.00

JAP.

APRIL 1, 1961

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QUALITY EVERGREENS

Per 1000	Per 100	Per 1000
	Douglas Fir, Colorado Blue strain	
	2-yr. seedlings, 3 to 7 ins.	\$4.00
	3-yr. seedlings, 8 to 14 ins.	7.00
\$250.00	Colorado Blue Spruce	
	2-yr. seedlings, 4 to 6 ins.	4.00
200.00	3-yr. seedlings, 5 to 10 ins.	6.00
300.00	4-yr. transplants, 5 to 10 ins.	11.00
	Norway Spruce	
	2-yr. seedlings, 4 to 8 ins.	4.00
300.00	3-yr. seedlings, 7 to 14 ins.	5.00
	3-yr. seedlings, 10 to 18 ins.	7.00
	4-yr. transplants, 8 to 14 ins.	9.00
200.00	Canadian Hemlock	
	6-yr. TT, field, 10 to 15 ins.	50.00
250.00	Taxus cuspidata	
	1-yr. potted	16.00
250.00	Rooted cuttings, heavy	
	Arborvitae, cuspidata, globe	12.00
	European White Birch	
	3 to 4 ft. heavy, each	1.50
200.00	American Arborvitae	
	7-yr. TT, field, potting grade,	
	24 to 30 ins.	60.00
	Scotch Pine, Austrian Hill,	
175.00	Denmark, domestic strains	
250.00	2-yr. seedlings, 4 to 6 ins.	3.00
	3-yr. seedlings, 10 to 16 ins.	4.00
175.00	Scotch Pine, special	
300.00	Blue-Green strain	
	3-yr. seedlings, 8 to 12 ins.	5.00
175.00	Austrian Pine, Lower Alpine strain	
300.00	3-yr. seedlings, 8 to 12 ins.	4.00
	4-yr. seedlings, 12 to 18 ins.	6.00
	White Pine	
	3-yr. seedlings, 6 to 10 ins.	4.00
	4-yr. transplants, 6 to 12 ins.	8.00
175.00	American Red Pine	
250.00	3-yr. seedlings, 6 to 10 ins.	4.00
	5-yr. transplants, 10 to 20 ins.	15.00
300.00	Myrtle, ground cover	
	Clumps, 10 to 20 leaders	8.00
300.00	Write for complete list.	
300.00	FLICKINGERS' NURSERY	
	Box 33 Sagamore, Pa.	

EVERGREEN PLANTING STOCK

Per 1000	Per 100	Per 1000
	Scotch Pine, French strain,	
	blue-green, straight stem	
400.00	Scotch Pine, Spanish strain,	
	excellent dark, rich green,	
400.00	straight stem	
	2-yr. sdgs. (2-0), 2 to 4 ins.	\$2.00
	2-yr. sdgs. (2-0), 4 to 8 ins.	5.00
	2-yr. sdgs. (3-0), 10 to 16 ins.	6.00
	White Pine	
	2-yr. sdgs. (2-0), 4 to 8 ins.	5.00
	3-yr. sdgs. (3-0), 6 to 10 ins.	6.00
	American Red Pine	
	2-yr. sdgs. (2-0), 2 to 4 ins.	3.00
	3-yr. sdgs. (3-0), 8 to 12 ins.	6.00
	Austrian Pine	
	2-yr. sdgs. (2-0), 4 to 6 ins.	4.00
	3-yr. sdgs. (3-0), 8 to 12 ins.	5.00
	Douglas Fir, blue	
	2-yr. sdgs. (2-0), 5 to 10 ins.	8.00
	3-yr. sdgs. (3-0), 10 to 16 ins.	10.00
	Colorado Blue Spruce	
	2-yr. sdgs. (2-0), 4 to 8 ins.	5.00
	3-yr. sdgs. (3-0), 8 to 12 ins.	9.00
	5-yr. transp. (3-2), 6 to 10 ins.	14.00
	White Spruce	
	2-yr. sdgs. (2-0), 5 to 10 ins.	6.00
	3-yr. sdgs. (3-0), 12 to 18 ins.	8.00
	5-yr. transp. (3-2), 12 to 18 ins.	10.00
	Norway Spruce	
	4-yr. sdgs. (4-0), 15 to 24 ins.	8.00
	Send for complete list.	
	CLAIR JOHNSTON & SON NURSERIES	
	Box 148 Creekside, Pa.	

EVERGREEN SEEDLINGS

Per 1000	Per 100	Per 1000
	Scotch Pine (Spanish or French)	
	2-yr. (2-0), 4 to 7 ins.	\$4.00
	3-yr. (3-0), 6 to 12 ins.	5.00
	Austrian Pine	
	3-yr. 6 to 12 ins.	5.00
	Colorado Blue Spruce	
	3-yr. (3-0), 5 to 9 ins.	5.00
	4-yr. (2-2), 8 to 10 ins.	10.00
	Norway Spruce	
	2-yr. (2-0), 3 to 6 ins.	4.00
	3-yr. (3-0), 8 to 12 ins.	5.00
	White Spruce	
	3-yr. (3-0), 8 to 12 ins.	5.00
	Black Hills Spruce	
	3-yr. (3-0), 5 to 9 ins.	5.00
	Engelmann Spruce	
	3-yr. (3-0), 5 to 9 ins.	5.00
	Canadian Hemlock	
	(nursery-grown seedlings)	
	2-yr. (2-0), 3 to 5 ins.	5.00
	4-yr. (2-2), 6 to 12 ins.	10.00
	Japanese Holly	
	1-yr. (1-0), 6 ins.	17.00
	3-yr. (1-2), 10 ins.	50.00
	Japanese Yew (cuspidata)	
	1-yr. (1-0), 8 ins.	17.00
	4-yr. (2-2), 12 ins.	45.00
	Hicks Yew	
	1-yr. (1-0), 8 ins.	17.00
	4-yr. (2-2), 12 ins.	45.00
	BURKETT'S EVERGREEN NURSERY	
	R. D. 2 Indiana, Pa.	

Phone HO 3-0363

TAXUS LINERS

Per 1000	Per 100	Per 1000
	4-yr. transplants, from cuttings, already	
	root pruned and cut back to the following	
	sizes for spring planting.	
	Each, 100	1000
	Taxus cuspidata, 12 to 18 ins.	\$0.55 \$0.45
	Taxus cusp. capitata, 12 to 18 ins.	.60 .50
	BULK'S NURSERIES, INC.	
	610 W. Montauk Highway, Babylon, N. Y.	

EVERGREENS, LINERS

	Per 100	Per 1000
Eastern Red Cedar		
6 to 12-in. seedlings	\$10.00	\$35.00
Ponderosa Pine		
2 to 4-in. seedlings		18.00
Jack Pine, 4 to 8-in. seedl.	3.50	12.50
10 to 18-in. seedlings	8.00	22.50
Norway Spruce		
6 to 10-in. seedlings	5.00	25.00
6 to 12-in. transplants	12.50	50.00
8 to 12-in. seedlings	12.50	40.00
Colorado Blue Spruce		
2 to 4-in. seedlings	5.00	20.00
3 to 6-in. seedlings	6.00	25.00
Douglas Fir		
2 to 4-in. seedlings	5.00	20.00
3 to 6-in. seedlings	6.00	25.00
White Pine, 2 to 4-in. seedl.	3.75	15.00
3 to 6-in. seedlings	4.50	20.00
3 to 6-in. transplants	6.50	25.00
Austrian Pine, 6 to 10-in. seedl.	6.00	20.00
4 to 8-in. seedlings	5.00	18.00
Scotch Pine, several varieties available		
2 to 14-in. seedlings	8.00	25.00
6 to 10-in. seedlings	6.00	20.00
3 to 6-in. seedlings	4.00	15.00
All 100 rate quotations shipped postpaid.		
50 at 100 rate; 500 at 1000 rate.		
TERMS: Cash with order, please, or 25		
per cent deposit, balance on shipment.		
VANS PINES, INC.		
West Olive, Mich.		

EVERGREEN SEEDLINGS

West Olive, Mich.		
EVERGREEN SEEDLINGS		
	100	1000
Douglas Fir, 4 to 6 ins.....	\$ 5.00	\$25.00
6 to 10 ins.....	7.00	30.00
10 to 16 ins.....	9.00	.....
Concolor Fir, 4 to 8 ins.....	6.50	26.00
6 to 12 ins.....	9.00	.....
American Arborvitae, 3 to 6 ins.....	5.00	22.50
5 to 10 ins.....	6.00	27.50
6 to 12 ins.....	7.00	30.00
10 to 15 ins.....	8.00	40.00
Colorado Blue Spruce, 3 to 5 ins.....	5.00	25.00
6 to 12 ins.....	8.00	40.00
10 to 15 ins.....	10.00	50.00
Black Hills Spruce, 3 to 6 ins.....	5.00	25.00
6 to 12 ins.....	8.00	40.00
10 to 16 ins.....	10.00	50.00
Scotch Pine, non-yellowing.....		
5 to 10 ins.....	7.00	35.00
3 to 6 ins.....	5.00	25.00
Dwarf Mugo Pine, 3 to 6 ins.....	7.00	.....
Dwarf Swiss Stone Pine, 12-yr., 12 to 20		
ins., \$5.00 each, express collect. Remittance		
with order. Plants at 100 rate sent prepaid		
up to zone 5, 500 plants at 1000 rate, ex-		
press collect. Packing free.		
Burlap bags, approximately 50x70 ins.		
when opened, 15c each. F.O.B. 25 to a		

2-YR. POTTED, 2 1/2-IN. POTS

368 Elcher Rd.	Pittsburgh 2, Pa.		
2-YR. POTTED, 2 1/2 IN. POTS			
	Each, 100	1000	
Juniper, Armstrong	.....	\$0.27 1/2	\$0.25
Juniper, Pfitzer	.....	.25	.22 1/2
Juniper, Blue Pfitzer	.....	.27 1/2	.25
Arb., Berckmans' Biota	.....	.22 1/2	.20
Taxus andersoni	.....	.25	.25
Taxus Adams columnaris	.....	.27 1/2	.25
Taxus cuspidata	.....	.25	.22 1/2
Taxus hicksii	.....	.25	.22 1/2
Taxus media No. 8	.....	.27 1/2	.25
Taxus berryhilli intermedia	.....	.27 1/2	.25

ROOTED CUTTINGS

In 1/2 inch house, ready now.	
Juniper, Armstrong	.13 .12
Juniper, Pfitzer	.12 .11
Juniper, Blue Pfitzer	.13 .12
Taxus andersoni	.11 .10
Taxus Adams columnaris	.12 .11
Taxus berryhilli intermedia	.12 .11
Taxus cuspidata	.11 .10
Taxus hicksii	.11 .10
Taxus media	.11 .10
VOGE NURSERY	
New Lebanon, O.	

3-YR. BEDDED, POTTED

3-YR. BEDDED, POTTED		Each, 100	1000
Andorra Juniper, 8 to 10 ins., T.		\$0.50	\$0.40
10 to 15 ins., T.		.60	.50
Pfitzer Juniper, 8 to 10 ins., T.		.50	.40
10 to 15 ins., T.		.60	.50
Pfitzer comp. Juniper,			
8 to 10 ins., T.		.50	.40
10 to 15 ins., T.		.60	.50
Taxus hicksi, 6 to 10 ins., T.		.45	.40
Thuja globosa, 12 to 15 ins., T.		.50	.45
Thuja pyramidalis,			
18 to 24 ins., T.		.60	.50

2-YR. POTTED, 2 1/2-IN. POTS

2-YR. POTTED, 2 1/2-IN. POTS		
Juniper, Pfitzer .....	.27 1/2	.25
Juniper, Pfitzer compacta .....	.27 1/2	.25
Taxus, Adams columnaris .....	.30	.27 1/2
Taxus browni .....	.30	.27 1/2
Taxus hatfieldi .....	.30	.27 1/2
Taxus intermedia .....	.30	.27 1/2
Thuja occidentalis .....	.25	.22 1/2

THE HOLLANDA GARDENS

South Vienna, O.

ROOTED CUTTINGS

	Per 100
Taxus cuspidata	\$50.0
Minimum order, 500.	
Shipped immediately unless otherwise stated	
Cash or check with order, please.	
Postage paid.	

DERR'S NURSERY

R. D. 1 Northumberland, Pa.

FIELD-GROWN TRANSPLANTED STOCK

Chamaecyparis lawsoniana allumi,	Each
12 to 15 ins., 3-yr. T.	\$.45
Globe Arborvitae (Woodward),	
4 to 6 ins., 1-yr. T. ....	.20
Juniper, Andorra, 4 to 6 ins., 1-yr. T. ....	.15
Taxus capitata, 4 to 6 ins., 3-yr. T. ....	.15
Taxus cuspidata, 4 to 6 ins., 2-yr. T. ....	.15
Taxus media hicksii, 4 to 6 ins., 2-yr. T. ....	.15
Taxus media brownii,	
4 to 6 ins., 2-yr. T. ....	.15
Blue Spruce (Colorado),	
8 to 10 ins., 5-yr. T. ....	.35
White Spruce, 10 to 12 ins., 5-yr. T. ....	.30
Terms: Cash, or C.O.D. Packing at cost.	
Minimum order 10 plants of a variety. F.O.B.	
Harmony, Pa.	
Shipments made by Railway Express or	

R. D. 1 VULAKOVIC'S NURSERY

Harmony, Pa.

2-YR. HEAVY LINERS, OPEN BEDDED

	Each
Taxus cuspidata	\$.20
Taxus densiformis .....	..
Taxus hatfieldi .....	..
Taxus moonii .....	..
1-YR. LINERS, OPEN BEDDED	
Taxus cuspidata .....	..15
Taxus densiformis .....	..15
Taxus hatfieldi .....	..15
Taxus cuspidata capitata, tip cuttings..	..15
Rooted cuttings, out of sand.	

LAURIENTE NURSERIES, INC.

464 Main St. Agawam, Mass.

JUNIPER GRAFTS

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WHEN BETTER GRAFTS ARE MADE, CRUME WILL MAKE THEM.

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& LANDSCAPING CO.

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Routed in open beds in summer of 1960.

Ilex hetzi	.5c
Ilex microphylla	.5c
Ilex bullata	.5c
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LINERS

Hetz Juniper, 2 1/2-in. pots.

Andorra Juniper, 2 1/2-in. pots.

Savin Juniper, 1-yr., field-grown.

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Juniperus fastigiata, 1-yr., field-grown.

Write for complete list of liners and finished Evergreens.

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Strong, true to type, rooted cuttings of the following:

Taxus varieties: Brownii, kelseyi, hicksii, femina, wardii, Hill's dwarf pyramidal, dwarf erecta and cuspidata.

Hill's pyramidal and both Arborvitae.

These are large cuttings, hormone treated and radiant heat grown, producing an abundance of strong roots.

\$10.00 per 100, \$90.00 per 1000.

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Free packing for cash with order.

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TSUGA CANADENSIS (Canada Hemlock)

Collected seedlings.

Per 100 Per 1000

6 to 9 ins.

9 to 12 ins.

Nursery-grown transplants.

Each, 100 1000

8 to 12 ins., 2-3

12 to 18 ins., 2-3

18 to 24 ins., 2-3

Send for complete trade list of hardy native Ferns, wildflowers, Evergreens, trees and shrubs.

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The finest: Taxus, Arborvitae, Junipers and broad-leaved liners and rooted cuttings.

2-yr., pot-grown stock, 7 to 9 ins., sheared, 20c to 25c each, per 1000 rate.

1-yr.-old, heavy rooted cuttings, 8c to 10c, per 1000 rate.

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5 yrs. old, 8 to 12 ins., 50c each, \$45.00 per 100, \$400.00 per 1000.

BUXUS SUFFRUTICOSA LINERS
1-yr. \$7.00 per 100
2-yr. \$12.00 per 100
3-yr. \$15.00 per 100

NANDINA SEEDLINGS
6 to 8 ins. \$5.00 per 100
12 to 15 ins. \$10.00 per 100
2 to 3 ft. \$15.00 per 100
All plants postage or express collect.

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LINING-OUT EVERGREENS

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ON PAGES 18-19

CARTWRIGHT NURSERY CO.
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Scotch Pine seedlings, French Green, German, Scotch Highland, 100 1000
2-yr., 2 to 4 ins. \$3.00 \$ 6.00
2-yr., 3 to 7 ins. 4.00 8.00
3-yr., 6 to 14 ins. 5.00 12.00
Colorado Blue Spruce, 3 to 7 ins. 6.00 20.00
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Norway Spruce, 3 to 7 ins. 6.00 20.00
Cash, or 25 per cent down and balance before shipment, F.O.B.
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4-yr. seedlings, 6 to 10 ins. 4.00 30.00
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Per 100 Per 1000
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3-yr., T. cut back. 25.00 225.00
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Varieties, densiformis, Hicks, Brown, Ward, Seabian intermedia, cusp. nana femina, Anderson, \$26.00 per 100.

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Pfitzeriana nana, pfitzeriana compacta and Hetz, \$25.00 per 100.
3000 VIBURNUM LANTANA
2-yr., 10 to 15 ins., \$12.00 per 100, \$90.00 per 1000.

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OUR SPECIALTY
Sturdy liners, dirt-grown in full sun.
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Grown under lights.

Taxus, Junipers and Arborvitae.
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Strong liners that will please you.
Each, 100 1000
Hemlock, TT, 8 to 10 ins. 25c 22 1/2c
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The 100 rate applies beyond the beetle zone.

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Classified Ads Offer Maximum
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Heavy, bushy liners, twice transplanted, dug with small earth ball.

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Well-rooted, grown in outdoor beds.
4,000 Ligustrum lucidum compactum, 4 to 6 ins., \$5.00 per 100.

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Minimum order 100. Packing free.
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Per 100 Per 1000
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Taxus media hicksii 25.00 200.00
Taxus media Seabian 25.00 200.00
Taxus media wardii 25.00 200.00
Taxus media donewellii 25.00 200.00
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French Blue, 4 to 8 ins.
Austrian Green, 5 to 10 ins.
Both are non-yellowing.
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2-yr., 12 to 18 ins., \$10.00 per 100, \$90.00 per 1000.
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Liners and rooted cuttings.
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1000 Andorra Juniper, 24 to 30 ins. 2.00
500 Andorra Juniper, 30 to 36 ins. 2.50
500 Andorra Juniper, 36 to 48 ins. 3.00
500 Pfitzer Juniper, 24 to 30 ins. 2.50
500 Pfitzer Juniper, 36 to 48 ins. 3.50
500 Norway Spruce, 2 to 3 ft. 2.50
500 Norway Spruce, 3 to 4 ft. 3.50
500 White Pine, 2 to 3 ft. 2.50
500 White Pine, 3 to 4 ft. 3.50
100 Mugho Pine, 18 to 24 ins. 3.50
400 Mugho Pine, 15 to 18 ins. 2.50
250 Mugho Pine, 12 to 15 ins. 2.00
300 Ilex crenata, spreading, 2 to 3 ft. 3.00
2000 Ilex rotundifolia, 12 to 24 ins. 2.50
4000 Ilex rotundifolia, 15 to 18 ins. 2.00
4000 Ilex rotundifolia, 12 to 15 ins. 1.50
500 Ilex convexa, 15 to 18 ins. 2.00
350 Canada Hemlock, 4 to 5 ft. 5.00
300 White Dogwood, 6 to 8 ft. 5.00
350 White Dogwood, 5 to 6 ft. 3.50
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All stock is B&B sheared yearly, certified for shipment any place.

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Juniperus glauca hetzi, 12 to 15 ins. 1.00
Juniperus hibernica, 24 to 30 ins. 1.35
Juniperus excelsa stricta, 18 to 24 ins. 1.35
Retinispora altilim, 15 to 18 ins.80
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Each, per 100
WHITE PINE, 2 to 3 ft., B&B \$2.50
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Red Pine, 4 to 5 ft., B&B 4.50
Red Pine, 5 to 6 ft., B&B 7.50
Red Pine, 6 to 7 ft., B&B 7.50
SCOTCH PINE, 2 to 3 ft., B&B 2.50
Scotch Pine, 3 to 4 ft., B&B 3.50
Scotch Pine, 4 to 5 ft., B&B 4.50
Scotch Pine, 5 to 6 ft., B&B 6.50
Scotch Pine, 6 to 7 ft., B&B 7.50
Very full, well-trimmed, well-dug by experienced diggers. Dig your own, only \$2.50 each. Over 250 acres with 300,000 Pine, Spruce, Fir and other Evergreens.

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First-quality, heavy and sheared.

Taxus cuspidata, 3 1/2 to 5 ft.
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Ilex hetzi, 30, 36 and 42 ins to 48 ins.
Ilex opaca, 3, 4 and 5 ft.
Ilex rotundifolia, 30, 36 and 42 ins. to 48 ins.
Thuja elegantissima, 5, 6 and 7 ft. to 8 ft.
Pinus nigra (Austrian), 4, 5, 6 and 7 ft. to 8 ft.
Magnolia soulangeana, 6 to 9 ft.
Magnolia stellata, 6, 7 and 8 ft. to 9 ft.
Euonymus alatus compactus, 6x5, 6x6 ft.
Euonymus vegetus Sarcoexia, 30, 36 and 42 ins.
Cotoneaster adpressa, 24, 30 and 36 ins.
Kwanzan and Weeping Cherry, 3 to 4-in. cal.
We have large plants in more varieties.
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Larix decidua Each, 100 1000
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2-yr., s (2-0), 3 to 6 ins.12 .10
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2-yr., s (2-0), 3 to 6 ins.12 .10
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4-yr., tr. (2-2), 6 to 12 ins.12 .10
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4-yr., tr. (2-2), 5 to 10 ins.12 .10
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Fennville, Mich.

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2 1/2 to 3 ft. 3.50
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2 to 2 1/2 ft. 2.15
2 1/2 to 3 ft. 2.50
3 to 4 ft. 3.00
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Sweet Gum, good heads, 1 1/2 to 2 ins. 4.00
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2 to 2 1/2 ins. 5.00

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JUNIPERS, B&B
3000 Andorra, 15 to 18, 18 to 24, 24 to 30 ins.
2000 Hetz, 18 to 24, 24 to 30, 30 to 36 ins.
1000 Pfitzer, 15 to 18, 18 to 24 ins.

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3000 Woodward globe, 15 to 18, 18 to 24 ins.
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1000 Pyramidal, 2 to 3 ft.

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Big Chinese Elm and Silver Maple.

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Decherd, Tenn.

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Good, heavy landscape stock. Sheared and well-branched. Medium sizes. The kind and quality we like to use on our own jobs. Priced so you can make money. Send your want list to either nursery.

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7 to 8 ft. average. You dig, \$20.00 each.

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Ostrich, Lady, Clayton and Maidenhair,
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THE WAYSIDE GARDENS
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with that wonderful root system.
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Over 500 varieties.

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Blooms late winter and spring. Low, attractive,
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Ideal for mass planting in parks and
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divisions, in shades of yellow, red, rose,
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Separate colors \$50.00 per 1000
No selection of color or
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Minimum order 500 plants. Send for list
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DAY LILIES Per 10 Per 100
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Large \$4.00 \$20.00 \$150.00
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2½-in. pots, 8 ins. tall, 30c; 10 ins. tall,
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Ready now. Cash with order, please.
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Male or female Per 100
Rooted cuttings \$17.50
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Lots of convexa, crenata and rotundifolia.
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DISCARD THE 1906 MODEL FOR A
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3-yr., 3 canes or more \$5.00 \$45.00
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Heavy 2-yr. certified plants.
INTERMEDIATE IRISES
Bloom both spring and fall.
Autumn Queen, white; Eleanor Roosevelt,
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Atrovioleacea, red-purple; Canary Yellow,
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Above three types of Irises,
\$2.00 per 10, \$15.00 per 100.
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IVIES**BOSTON IVY**

(Ampelopsis tricuspidata veltchii robusta)
This is the improved European strain
grown from cuttings. Much superior in color
and uniformity to that commonly grown
from seed. 2-yr., field-grown, No. 1 plants,
\$35.00 per 100; 300 and up, \$30.00 per 1000.
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North Collins, N. Y.

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Very hardy.
Good ground or wall cover.
Rooted cuttings,
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Thorndale, sub-zero strain, landscaping
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Wilson strain, pots, 15c; rooted cuttings, 5½c.
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1-yr. seedlings, 12 to 18 ins.,
\$12.00 per 100, \$100.00 per 1000.
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Wholesale prices, F.O.B. New York.
300 lbs. will be shipped freight paid.
50 lbs. 100 lbs.

Sunny Best Mixture, contains
30 per cent Merion Blue
Grass \$37.50 \$69.00
Shady Best Mixture, contains
Wood Meadow Grass 24.50 43.00
Landscape Gardeners' Mixture,
with or without clover 21.00 36.00
Also formulas for cemeteries, athletic
fields, golf courses, etc. Send for complete
wholesale list which includes current quo-
tations for all individual grasses.
HERBST BROTHERS, SEEDSMEN, INC.
678 Broadway New York 12, N. Y.

"PURE KY." BLUE GRASS LAWN SEED
Grown right here on our farm. You know
you are getting thoroughbred seed.
Join our satisfied customers.
10 lbs., \$5.50; 25 lbs., \$12.00; 60 lbs.,
\$20.00; 100 lbs., \$38.00. All F.O.B. here.
WALNUT LAWN FARM
Route 2 Lexington, Ky.

Check Your Stock Now!

If you have a surplus
sell it through the
American Nurseryman Classified Ads.

LINING-OUT STOCK**POT-GROWN GRAFTS, MAY SHIPMENT**

Per 100
Acer pal. atro. Bloodgood \$5.00 75.00
Acer dissectum 75.00
Acer dissectum atropurpureum 75.00
Abies nobilis glauca 100.00
Abies nordmanniana 100.00
Biota aurea nana 50.00
Cedrus atlantica glauca 75.00
Cedrus atlantica aurea 100.00
Cedrus deodara pendula 100.00
Carpinus betulus fastigiata 60.00
Cornus florida rubra 50.00
Cornus florida rubra Prosser 65.00
Cornus florida pendula 60.00
Cornus florida velchii var. 65.00
Cornus florida flore-plena 60.00
Cornus kousa chinensis 60.00
Cornus kousa speciosa 60.00
Fagus sylvatica riversi 60.00
Fagus sylvatica purp. pendula 75.00
Fagus sylvatica pendula 60.00
Fagus sylvatica Tricolor 75.00
Fagus sylvatica heterophylla 60.00
Fagus sylvatica fastigiata 50.00
Hamamelis mollis 75.00
Hamamelis brevipedata 100.00
Picea pung. glauca moehemi 125.00
Picea pung. glauca hoopsi 100.00
Picea pung. glauca pendula 100.00
Picea pung. pendula 100.00
Picea excelsa pendula 100.00
Picea excelsa nudiformis 100.00
Picea excelsa remonti 100.00
Picea excelsa gregoryana 100.00
Picea excelsa inversa pendula 100.00
Pinus cembra 60.00
Pinus watereri glauca 60.00
Pinus strobus nana 60.00
Pinus strobus fastigiata 60.00
Pinus strobus pendula 60.00
Pinus parviflora glauca 60.00
Pine, Tanyosho 60.00

Full list on request.
VERKADE'S NURSERIES, INC.
Wayne, N. J.

LINING-OUT STOCK

Abelia sherwoodii, 8 to 10 ins.	\$.15
Acer palmatum, 18 to 24 ins.	.25
10 to 12 ins.	.15
2 to 3 ft.	.50
Banksia laevis, 8 to 10 ins.	.20
Buxus harlandi, 6 to 8 ins.	.15
Buxus sempervirens, 6 to 8 ins.	.15
Buxus suffruticosa, 4 to 6 ins.	.15
Cephalotaxa harringtonia fortunei (Plum Yew), 8 to 10 ins.	.15
Cercis canadensis (Redbud), 18 to 24 ins.	.15
2 to 3 ft.	.20
Cotoneaster divaricata, 10 to 12 ins.	.15
8 to 10 ins.	.15
Cotoneaster francheti, 8 to 10 ins.	.15
Cotoneaster horizontalis, 8 to 10 ins.	.20
6 to 8 ins.	.15
Cotoneaster paniculatus, 8 to 10 ins.	.15
Cotoneaster parneyi, 8 to 10 ins.	.15
Cunninghamia glauca (Blue China Fir), 8 to 10 ins.	.20
6 to 8 ins.	.15
Cunninghamia, green; 8 to 10 ins.	.15
Elaeagnus fruticulata, 8 to 10 ins.	.15
Eriobotrya japonica (Loquat), 1-yr., 2 to 6 ft.	.10
Fatsia, 6 to 8 ins.	.15
Forstia, 12 to 15 ins.	.12 1/2
15 to 18 ins.	.15
Hypericum, 12 to 15 ins.	.15
Ilex cassine attenuata, 10 to 12 ins.	.15
8 to 10 ins.	.15
Ilex cassine, 10 to 12 ins.	.20
8 to 10 ins.	.15
Ilex cornuta, 8 to 10 ins.	.15
Ilex cornuta burfordi, 10 to 12 ins.	.20
6 to 8 ins.	.12 1/2
8 to 10 ins.	.15
Ilex crenata, 8 to 10 ins.	.15
Ilex crenata rotundifolia, 8 to 10 ins.	.15
Ilex opaca East Palatka, 8 to 10 ins.	.15
Ilex opaca fosteri, 10 to 12 ins.	.20
8 to 10 ins.	.15
Ilex opaca Hume No. 2, 8 to 10 ins.	.15
Ilex vomitoria, 10 to 12 ins.	.15
Illicium anisatum (Anise), 8 to 10 ins.	.15
Jasminum floridum, 12 to 15 ins.	.15
10 to 12 ins.	.12 1/2
Jasminum nudiflorum, 12 to 15 ins.	.15
10 to 12 ins.	.12 1/2
Juniperus pfitzeriana, 8 to 10 ins.	.15
Juniperus pfitzeriana glauca hetzi (blue vase-shaped), 8 to 10 ins.	.15
Loropetalum chinense, 10 to 12 ins.	.20
8 to 10 ins.	.15
Lonicera nitida, 8 to 10 ins.	.15
Lonicera yunnanensis, 8 to 10 ins.	.15
Ligustrum nepalense, 12 to 15 ins.	.15
Ligustrum lucidum, 12 to 15 ins.	.15
Magnolia grandiflora (1-yr. seedling), 4 to 6 ins.	.10
Mahonia bealei, 8 to 10 ins.	.15
Nandina, 4 to 6 ins.	.15
Osmanthus fragrans, 8 to 10 ins.	.15
Osmanthus fortunei, 10 to 12 ins.	.20
8 to 10 ins.	.15
Pinus pinaster, 8 to 10 ins.	.15
Pinus pinea, 8 to 10 ins.	.15
Pinus strobus, 8 to 10 ins.	.15
Pyraeantha (red berry), cutting-grown, good var., 12 to 15 ins.	.15
Raphiolepis japonica, 8 to 10 ins.	.15
Retinispora ericoides, 10 to 12 ins.	.15
8 to 10 ins.	.12 1/2
Salix discolor, 2 to 3 ft.	.15
Salix (Weeping Willow), 3 to 4 ft.	.15
Sasanqua Cleopatra, 12 to 15 ins.	.20
10 to 12 ins.	.17 1/2
Sasanqua rosea, 12 to 15 ins.	.20
10 to 12 ins.	.17 1/2
Sophora japonica, 4 to 5 ft.	.25
3 to 4 ft.	.15
Thrift, white; 3 to 6 ins.	.10
Viburnum odoratissimum, 8 to 10 ins.	.15

SHIPPING NOTICE

Above prices are F.O.B. Stovall, Ga. Lining-out stock is shipped bare-root and well-packed, with no packing charges. INCLUDE EXTRA MONEY ON SMALL ORDERS WHICH CAN GO PARCEL POST. Large orders are shipped express collect.

ALL NURSERY STOCK IS GROWN HERE AND IS GOVERNMENT INSPECTED.

CALVIN HARMAN NURSERY

Stovall, Ga.

COLLECTED SEEDLINGS

	Per 100	Per 1000
Betula papyrifera (Paper Birch)		
1 to 2 ft.	\$15.00	\$120.00
2 to 3 ft.	20.00	150.00
3 to 4 ft.	25.00	
Betula populifolia (Gray Birch)		
1 to 2 ft.	7.00	60.00
2 to 3 ft.	12.00	100.00
3 to 4 ft.	15.00	125.00
Fagus grandifolia (American Beech)		
6 to 12 ins.	6.00	50.00
Viburnum cassinoides (Withered)		
1 to 2 ft.	10.00	80.00

Send for complete trade list of hardy native trees, wildflowers, Evergreens, trees and shrubs.

ISAAC LANGLEY WILLIAMS

Box AN Exeter, N. H.

SPECIAL SALE!

50,000 heavily rooted Ilex rotundifolia, 3 to 4 ins., were 4c, now 3c, as long as they last.

E. F. DUBOSE NURSERY

Huntsville, Ala.

LINING-OUT STOCK

	Per 100	Per 1000
Acer ginnala, 1-yr. seedlings, 6 to 9 ins.	\$ 7.00	\$ 60.00
Acer ginnala, 1-yr. seedlings, 9 to 12 ins.	8.50	75.00
Acer pal. atropurpureum, 3-yr., TT, FR, grafts, 12 to 15 ins.	150.00	1400.00
Ampelopsis vitifolia, 1-yr. seedlings, No. 1	7.00	60.00
Ampelopsis vitifolia, 2-yr., T, FR	30.00	250.00
Azalea mollis, seedlings, mixed; T, beds, 4 to 6 ins.	25.00	200.00
Berberis, Pigmy, dwarf red; 2-yr., T, beds, 4 to 6 ins.	40.00	300.00
Cornus florida, grafting size, 1-yr. seedlings	5.00	45.00
Cotoneaster divaricata, 2-yr., T, FR, 12 to 15 ins.	25.00	200.00
Cydonia japonica, 1-yr. seedlings, 6 to 9 ins.	4.50	40.00
Fagus sylvatica, 4-yr., TT, FR, 12 to 18 ins.	40.00	350.00
Fagus sylvatica, 4-yr., TT, FR, 2 to 3 ft.	50.00	450.00
Ginkgo biloba, 1-yr. seedlings, 3 to 5 ins.	7.50	70.00
Ilex aquifolium (Eng. Holly), 2-yr., T, beds, staked, 18 to 24 ins.	75.00	650.00
Koeleruteria paniculata, 1-yr. seedlings, 3 to 6 ins.	6.00	50.00
Liquidambar styraciflua, 1-yr. seedlings, 4 to 6 ins.	7.50	65.00
Liquidambar styraciflua, 1-yr. seedlings, 6 to 9 ins.	9.00	80.00
Picea canadensis alba, 4-yr., T, beds, 6 to 9 ins.	20.00	150.00
Pieris japonica, 1-yr., T, beds 15.00	100.00	
Pieris japonica, 2-yr., T, beds 35.00	300.00	
Pieris japonica, 3-yr., T, beds 45.00	400.00	
Pieris japonica, PINK, 3-yr., T, beds	55.00	500.00
Quercus palustris, 1-yr. seedlings, 6 to 9 ins.	6.00	50.00
Quercus palustris, 1-yr. seedlings, 9 to 15 ins.	9.50	80.00
Quercus palustris, 2-yr., T, FR, 12 to 18 ins.	20.00	150.00
Quercus palustris, 3-yr., TT, FR, 2 to 3 ft.	40.00	350.00
Quercus palustris, 3-yr., TT, FR, 3 to 4 ft.	50.00	450.00
Taxus brevifolia, 2-yr., T, beds 30.00	250.00	
Taxus brevifolia, 3-yr., T, beds 45.00	400.00	
Taxus cusp., upright, seedlings, 2-yr. (over 5000, \$70.00 per 1000)	10.00	90.00
Taxus cusp., upright, seedlings, 3-yr.	15.00	120.00
Taxus cusp., upright, 3-yr., T, beds	20.00	150.00
Taxus cusp., upright, 3-yr., TT, beds	30.00	250.00
Taxus densiformis, 3-yr., T, beds	45.00	400.00
Taxus densiformis, 4-yr., TT, FR, 6 to 9 ins., heavy	60.00	550.00
Taxus hatfieldi, 3-yr., T, beds 45.00	400.00	
Taxus hatfieldi, 4-yr. TT, FR, 6 to 9 ins., heavy	60.00	550.00
Tilia cordata, 1-yr. seedlings, 4 to 6 ins.	6.00	50.00
Tilia cordata, 3-yr., T, FR, 2 to 3 ft.	35.00	300.00
Tilia cordata, 3-yr., T, FR, 3 to 4 ft.	50.00	450.00
Zelkova serrata, 1-yr. seedlings, 6 to 9 ins.	4.50	40.00
Zelkova serrata, 1-yr. seedlings, 9 to 12 ins.	5.50	50.00
Zelkova serrata, 2-yr., T, FR, 15 to 18 ins.	18.00	150.00

(Substitute for American Elm, not subject to Dutch Elm disease.)

T—once transplanted; TT—twice transplanted; FR—field row.

BOULEVARD NURSERIES, INC.

Newport, R. I.

Phone VI 6-1263

ROOTED CUTTINGS

Most of these cuttings were rooted last winter and have been heeled-in outside since then. Immediate delivery.	
Ilex crenata	.5c each
Ilex crenata	.5c each
Juniper, Andorra	.6c each
Juniper, hetzi glauca	.6c each
Juniper, spreading (good)	.5c each
Taxus andersoni	.7c each
Taxus cuspidata	.7c each
Taxus E. No. 1 (good)	.7c each
Taxus Halloran	.7c each
Taxus hatfieldi	.7c each
Taxus kelseyi	.7c each
Taxus T-31	.7c each
Taxus uprights (mixed)	.6c each
Per 100	
Taxus baccata, 6 to 8, X	\$22.00
Taxus browni, 6 to 8, X	22.00
Taxus cuspidata, 8 to 10, X	27.00
Taxus E. No. 1 (GOOD), 8 to 10, X	27.00
Taxus Halloran, 6 to 8, X	22.00
Taxus hatfieldi, 8 to 10, X	27.00
Taxus hicksi, 6 to 8, X	22.00
Taxus Jeffreys, 6 to 8, X	22.00
Taxus kelseyi, 6 to 8, X	22.00
Taxus T-31, 6 to 8, X	22.00
Taxus T-33, 8 to 10, X	27.00

Free packing. Write for complete list.

ESHAM'S NURSERIES

Millboro, Del.

AZALEAS, HEAVY 2-YR. TRANSPLANTS

Brilliant, Daphne Salmon, Formosa, Ivory-ana, Judge Solomon, Pres. Clay, Pride of Mobile, Southern Charm, V. C. Rubra, amosa, Double Macrantha, Judd, Kasperli, kosteri, Pink Macrantha, sherwoodi, Bridesmaid, Coral Bells, Eleanor Allen, Hampton Beauty, Hino-Crimson, hinodegiri, Vesuvius, Mme. Pericat, Mrs. Fischer, Pink Pericat, Twenty Grand.

\$15.00 per 100, \$125.00 per 1000.

CAMELLIAS, vigorous 3-in. plastic pot-grown liners in most popular varieties. Ready to be moved up to can or field.

\$30.00 per 100, \$250.00 per 1000.

MAGNOLIAS, 2-yr., bed-grown, heavy roots.

Alba superba, alexandrina, liliflora, Lilliputian, nigra, pink alba superba, rustica rubra, soulangeana.

Per 100 Per 1000

12 to 18 ins. \$35.00 \$300.00

18 to 24 ins. 40.00 350.00

ORNAMENTALS

Per 100

Buxus harlandi, japonica, 4 to 6 ins. \$12.50

Cleyera japonica, 6 to 8 ins. 15.00

8 to 12 ins. 17.50

Fatsia japonica, 3-in. pot. 15.00

Gardenias, August Beauty, Florida, Fortune, Mystery, 8 to 12 ins. 12.50

12 to 18 ins. 15.00

Gardenia radican, 4 to 6 ins. 12.50

6 to 8 ins. 15.00

Ilex vomitoria, 8 to 12 ins. 12.50

12 to 18 ins. 15.00

Ilex vomitoria nana, 6 to 8 ins. 17.50

8 to 12 ins. 20.00

Ilex, bullata, microphylla, repandum, 6 to 8 ins. 17.50

8 to 12 ins. 20.00

Ilex rotundifolia, 6 to 8 ins. 15.00

8 to 12 ins. 17.50

Ilex, cornuta burfordi, femina, 8-in. pot. 17.50

8 to 12 ins. 20.00

Laurus officialis, 6 to 8 ins. 8.50

8 to 12 ins. 10.00

Liriope, green, clumps 20.00

Loropetalum, 6 to 8 ins. 12.50

8 to 12 ins. 15.00

Lonicera yunnanensis, 3-in. pot. 10.00

Ligustrum, Iwata, lucidum, pyramidal, repandum, texanum, 6 to 8 ins. 10.00

8 to 12 ins. 12.50

12 to 18 ins. 15.00

Magnolia grandiflora, 6 to 8 ins. 12.50

8 to 12 ins. 15.00

12 to 18 ins. 20.00

18 to 24 ins. 25.00

Podocarpus sinensis, 6 to 8 ins. 15.00

8 to 12 ins. 17.50

Pyraeanthas, formosana, graberi, 3-in. pot. 15.00

Serissa foetida, 8 to 12 ins. 12.50

Serissa foetida, 12 to 18 ins. 15.00

Sorbus odoratissima, 6 to 8 ins. 12.50

8 to 12 ins. 15.00

12 to 18 ins. 17.50

SASANQUA (Camellias), Annette, Chogiguruma, Cinderella, Cleopatra, Day Dream, Hino-gumo, Mine-no-yuki, Oleifera, Pink Snow, Rosea, Rosea, Papavera, Setsugekka, Shishifukujin, Texas Star, 6 to 8 ins. 15.00

8 to 12 ins. 17.50

SEMMES NURSERIES, INC.

Semmes, Ala.

LINING-OUT STOCK

EACH, 100 1000

Acer palmatum atropurpureum

BLOODGOOD, strong 2-yr.

grafts

OSSI BENI, strong 2-yr.

grafts

Cornus elegantissima, 1-yr. T.

florida rubra, 2-yr. grafts.

Cotoneaster divaricata, 1-yr. seedlings, 6 to 10 ins.

2-yr., T, 9 to 12 ins.

3-yr., T, 12 to 18 ins., branched, suitable for mail order.

Fagus sylvatica asplenifolia, 2-yr. grafts

riveral, 2-yr. grafts.

Laburnum vulgare, 1-yr. seedlings

Magnolia soulangeana, 1-yr., T, cuttings

2-yr., T, cuttings

Picea pungens glauca, 4-yr., T.

Rhododendron wilsoni, 2-yr., T.

Rhus cotinus ROYAL FURLE, 1-yr. grafts, bedded

Thuja nigra, 2-yr., T.

orientalis aurea nana, strong 2-yr., T, cuttings.

Viburnum carlesii, 2-yr. seedlings, 4 to 6 ins.

3-yr. seedlings, 12 to 18 ins.

setigerum, 1-yr. seedlings, 8 to 12 ins.

wrightii, 2-yr. seedlings, 15 to 18 ins.

Welgela vaniceki, 1-yr., SW.

WHERE QUALITY EXCELS. No charge for packing.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

Taxus, Ilex, broad-leaved Evergreens, etc., in variety. Write for our latest list of liners and finished stock.

Del-Mar-Va Nurseries, Box 3, Lincoln, Del.

LINING-OUT STOCK—Continued

LINING-OUT STOCK

All plants bare-root except where noted. Average Evergreens, 6 to 8 ins. or better. Shrubs, etc., 8 to 10 ins. or better. Best roots in the business. We ship all 12 months.

EVERGREENS

Andorra Juniper	.....	\$0.05
Armstrong Pfitzer Juniper	.....	.10
Blue Hetz Juniper	.....	.05
Burk Juniper (upright tree), no competition can touch you on Burk	.....	.12
Hillbush Juniper (virginalis)	.....	.12
Pfitzer Juniper	.....	.07
Savin Juniper	.....	.06
Taxus cuspidata	.....	.10
Von Ehrhart Juniper	.....	.06
Gold Tip Pfitzer Juniper	.....	.10
Compact Pfitzer Juniper (dwarf Pfitzer bands)	.....	.16

DECIDUOUS

Deutzia gracilis, 5 to 6 ins.	.....	.06
Forsythia Arnold's Brilliant	.....	.06
Forsythia Arnold's Dwarf	.....	.06
Forsythia Arnold's Giant	.....	.06
Forsythia nana compacta	.....	.04
Blue Spiraea (Caryopteris)	.....	.06
Hypericum Hidcote	.....	.05
Hypericum kalmianum, dwarf, hardy, pretty. Should sell	.....	.05
Honeysuckle, Zabel, Bush	.....	.04
Honeysuckle, heckrothi, Vine, evbl.	.....	.06
Privet, Golden Vicary, All yellow	.....	.06
Privet, Lodense	.....	.04
Privet, Regels	.....	.04
Privet, Chinese, Wayside Garden's strain	.....	.04
Spiraea macrothyrsa, evbl. pink plumes	.....	.06
Spiraea Anthony Waterer	.....	.10
Viburnum op. (Snowball)	.....	.10

BROADLEAFS

Euonymus carrierei	.....	.04
Euonymus coloratus	.....	.04
Euonymus patens Flagpole (small leaf)	.....	.04
patens, large leaf	.....	.04
patens Newport (medium leaf)	.....	.04
patens Owen (small leaf)	.....	.04
radicans erectus (small leaf)	.....	.04
patens Rosehill (medium leaf)	.....	.04
Honeysuckle, Purple Leaf (Texas)	.....	.04
Vine. Fine for cans and planters	.....	.04
Honeysuckle, Gold Net. Vine. Variegated	.....	.05
Pyracantha Kasan, a heavy berried	.....	.05
Pyracantha lalandi	.....	.05
Pyracantha pauciflora, cans and planters	.....	.05

PERENNIALS

Phlox subulata Scarlet Flame, newest variety and most brilliant color	.....	.04
Emerald Pink	.....	.04
Teucrium chamaedrys	.....	.04
Less than 300 total order, 2c more per plant. Less than 50 of any item, 4c more per plant.	.....

Shipment now or book your order for spring.

McNINCH GREENHOUSES
St. Joseph, Mo.

LINING-OUT STOCK

Bedded 1-yr. in the open.	100	1000
Ilex convexa	\$20.00 \$180.00
Ilex rotundifolia	20.00 180.00
Ilex hetzi	20.00 180.00
Juniperus pfitzeriana	20.00 180.00
Taxus andersonii	20.00 175.00
Taxus brevifolia	20.00 175.00
Taxus capitata, cutting-grown	25.00 225.00
Taxus capitata Adams, cutting-grown	25.00 225.00
Taxus canadensis stricta	16.00 150.00
Taxus cuspidata	17.50 150.00
Taxus hatfieldi	17.50 150.00
Taxus hunnewelliana	17.50 150.00
Taxus hicksii	17.50 150.00
Taxus intermedia	17.50 150.00
Taxus henryi	20.00 175.00
Taxus densiformis	20.00 175.00
Taxus vermeulenii	17.50 150.00
Taxus wardi	17.50 150.00
Taxus Moon's columnaris	20.00 175.00
Taxus brownii	17.50 150.00

Ilex convexa, 6 to 9 ins.	.....	\$25.00 \$200.00
Ilex rotundifolia, 6 to 9 ins.	.....	25.00 200.00
Ilex hetzi, 6 to 9 ins.	.....	25.00 200.00
Taxus Adams col., 8 to 12 ins.	.....	50.00 450.00
Taxus cuspidata, 6 to 9 ins.	.....	30.00 250.00
Taxus hatfieldi, 6 to 9 ins.	.....	30.00 250.00
Taxus cuspidata comp., 6 to 9 ins.	.....	30.00 250.00
Taxus hunnewelliana, 6 to 9 ins.	.....	30.00 250.00
Taxus brownii, 6 to 9 ins.	.....	30.00 250.00
Taxus intermedia, 6 to 9 ins.	.....	30.00 250.00

TAXUS CAPITATA, SEEDLING-GROWN	100	1000
1-yr. seedlings	\$ 6.00 \$ 50.00 \$ 450.00
2-yr. seedlings	10.00 90.00 750.00
3-yr. seedlings	17.50 150.00 1250.00
4-yr. seedlings, transplanted, 6 to 10 ins.	30.00 250.00 2250.00

CORNUS FLORIDA (WHITE DOGWOOD)	100	1000
1-yr., No. 1 grade	\$ 6.00 \$ 50.00 \$ 450.00
1-yr., No. 2 grade	5.00 40.00 350.00
1-yr., No. 3 grade	4.00 30.00 250.00
2-yr., No. 1 grade	12.50 100.00 900.00
2-yr., No. 2 grade	10.00 90.00 750.00

Special prices on large quantities.

Full list on request.

VERKADE'S NURSERIES, WAYNE, N. J.

Small Ads Do Great Things in the American Nurseryman Classified Section.

ROOTED CUTTINGS

	Per 100
Taxus brownii, 7 to 8 ins.	.....\$10.00
cuspidata, 7 to 8 ins.	.....7.00
densiformis, 7 to 8 ins.	.....10.00
hunnelliana, 7 to 8 ins.	.....9.00
hicksii, 7 to 8 ins.	.....8.00
hatfieldi, 6 to 8 ins.	.....9.00
intermedia, 6 to 8 ins.	.....9.00
cuspidata cap., 7 to 8 ins.	.....12.00
Thuja boothii, 6 to 8 ins.	.....8.00
hoveyi, 6 to 8 ins.	.....8.00
nigra (Am., dark green), 6 to 8 ins.	.....8.00
pyramidalis, 6 to 8 ins.	.....8.00
spiralis, 6 to 8 ins.	.....10.00
woodwardi globe, 6 to 8 ins.	.....8.00
Ilex convexa, 4 to 6 ins.	.....6.00
convexa hetzi, 4 to 6 ins.	.....6.00
latifolia, upright, 6 to 8 ins.	.....10.00
rotundifolia, 4 to 6 ins.	.....6.00
Buxus sempervirens, 8 to 10 ins.	.....7.00
Juniper, Andorra, 7 to 8 ins.	.....8.00
Juniperus glauca hetzi, 7 to 8 ins.	.....8.00
pfitzeriana, 7 to 8 ins.	.....8.00
sabina, 7 to 8 ins.	.....8.00
Juniperus suecica, 6 to 8 ins.	.....10.00
tamariscifolia, 6 to 8 ins.	.....10.00
Rooted summer 1960, outside frames.	.....
Euonymus vegetus	.....\$ 5.00
alatus	.....7.00
alatus compactus	.....7.00
carrierei	.....6.00
Deutzia gracilis	.....8.00
Deutzia lemoinei	.....8.00
Viburnum tomentosum	.....10.00
Pyracantha lalandi	.....6.00
2 per cent, and free packing, for cash with order.	.....

LINCOLN NURSERIES

Grand Rapids 4, Mich.

QUALITY LINERS

Grown in soil fumigated with methyl bromide and expertly packed for safe handling.

	Per 100
Abelia grandiflora	.....
8 to 12 ins., bare-root	.....\$15.00
12 to 18 ins., bare-root	.....25.00
18 to 24 ins., bare-root	.....40.00
Gardenias, Mystery and radicans	.....
6 to 8 ins., bare-root	.....10.00
8 to 12 ins., bare-root	.....14.00
Ilex burfordi	.....
2 1/2-in. pots	.....15.00
Ilex cornuta femina	.....
Extra nice 2 1/2-in. pots	.....18.50
Ilex hetzi (reflexa supreme)	.....
6 to 8 ins., bare-root	.....16.00
8 to 12 ins., bare-root	.....14.00
Ilex, rotundifolia and Biloxi	.....
6 to 8 ins., bare-root	.....12.50
Ligustrum lucidum	.....
6 to 8 ins., bare-root	.....11.00
8 to 12 ins., bare-root	.....14.00
Magnolia soulangeana	.....
8 to 12 ins., bare-root	.....25.00
Sasanqua, Cleopatra and rosea	.....
6 to 8 ins., bare-root	.....15.00
8 to 12 ins., bare-root	.....17.50
12 to 18 ins., bare-root	.....22.50
Spiraea reevesiana (double white)	.....
12 to 18 ins., bare-root	.....25.00
18 to 24 ins., bare-root	.....35.00
Azaleas, Camellias, Ilex, Pyracanthas, etc., in container and B&B, assorted sizes. Write for price list.	.....

STEPHENS NURSERIES

Semmes, Ala.

ROOTED CUTTINGS

Berckmans' Arborv.	Chamaecyparis allum.			
Spiny Greek Juniper	Blue Lawson			
Retinispora crispis	Retinispora ericoides			
Baker's Arborvitae	Podocarpus			
Globe Arborvitae	Green Pittosporum			
Pfitzer Juniper	Ilex East Palatka			
Ilex burfordi	Photinia serrulata			
Ilex bullata	Photinia glabra			
Hetz Juniper				
		10	100	1000
3 to 5 ins., rooted cuttings		\$1.00	\$6.00	\$50.00
Pfitzer Juniper	Photinia glabra			
Var. Pittosporum				
		10	100	1000
4 to 6 ins.		\$1.50	\$8.00	\$75.00
Dwarf Euonymus	Viburnum suspensum			
Viburnum odorat.	Buxus japonica			
Buxus harlandi	Ilex rotundifolia			
Gardenia radicans	Gardenia fortunei			
		10	100	1000
4 to 6 ins.		\$1.00	\$6.00	\$50.00
3 to 5 ins., rooted cuttings		.75	5.00	40.00
Viburnum odorat.	Buxus japonica			
Photinia serrulata	Baker's Arborvitae			
Buxus harlandi	Ilex burfordi			
Globe Arborvitae				
		10	100	1000
6 to 8 ins.		\$2.00	\$12.50	\$100.00
Podocarpus	Photinia glabra			
Ilex rotundifolia	Gardenia fortunei			
Gardenia radicans	Ilex bullata			

FLOWERWOOD NURSERY

	10	100	1000
P. O. Box 206	10	1000
Boxwood, 5c. Abellias, 3c. Pfitzer Juniper, 5c each; 10,000 or more, 4c.	10	1000
2 1/2-IN. POTS	10	1000
Burford Holly, Abellias, Pfitzer Juniper, Boxwood, Magnolias, 10c each. Nandinas, 8c.	10	1000
Check with order, please.	10	1000

ROOTED CUTTINGS

	10	100	1000
Boxwood, 5c. Abellias, 3c. Pfitzer Juniper, 5c each; 10,000 or more, 4c.	10	1000
2 1/2-IN. POTS	10	1000
Burford Holly, Abellias, Pfitzer Juniper, Boxwood, Magnolias, 10c each. Nandinas, 8c.	10	1000
Check with order, please.	10	1000

CARDEN'S NURSERY AND CUT FLOWERS
4201 North St. Fort Smith, Ark.

LINING-OUT STOCK

For immediate delivery or for reservation. All plants from 2 1/2-in. pots, grown in open beds, under field conditions and ready for field planting.

	Each, lots 100	1000
Ilex cren. rotundifolia, 10 to 12 ins.	.....\$0.12	\$0.10
Ilex cren. rotundifolia, 8 to 10 ins.	......10	.08
Ilex cren. bullata convexa,	.....
6 to 8 ins.	......12	.10
Ilex opaca howardii, 6 to 8 ins.	......12	.10
Buxus harlandi, 4 to 6 ins.	......10	.08
Buxus japonica, 4 to 6 ins.	......10	.08
Ilex cren. microphylla, 4 to 6 ins.	......12	.10
Mahonia bealei, 10 to 12 ins.	......14	.12
Weeping Privet, 10 to 12 ins.	......12	.10
Euonymus radicans, 8 to 10 ins.	......08	.06
Our stock guaranteed 100 per cent satisfactory or return for full refund.	.....

TERMS: Packing without cost, 25 per cent with order, balance C.O.D. Minimum 50 of a kind, please.

EVERGREEN NURSERIES

Poplar Pike
Germantown, Tenn.

LINING-OUT STOCK

	Per 100	Per 1000
Cherry Laurel, 6 to 12 ins.	.....\$ 3.00	\$25.00
Dogwood, white-flowering,	.....
6 to 12 ins.	.....3.00	20.00
18 to 24 ins.	.....5.00	40.00
Euonymus, green;	.....
rooted cuttings	.....3.00	25.00
Live Oak, 6 to 12 ins.	.....3.00	25.00
12 to 18 ins.	.....4.00	35.00
Water Oak, 12 to 18 ins.	.....4.00	35.00
Marginalia grand., 3 to 5 ins.	.....4.00	30.00
4 to 8 ins.	.....5.00	45.00
12 to 24 ins.	.....10.00	90.00
Yaupon Holly, 4 to 8 ins.	.....3.00	25.00
Wax Ligustrum, transplants	.....4.00	35.00
Slash Pine, 12 to 18 ins.	.....3.00	20.00
Mimosas, 6 to 18 ins.	.....3.00	20.00
Gardenias, fortunei, Mystery, radicans, stricta nana,	.....
rooted cuttings	.....3.00	25.00
L. H. BUTTER NURSERY Forest Hills, La.	.....

HEAVY 3-YR. TRANSPLANTS, SHEARED

	Per 100
Taxus brownii, 10 to 12 ins.
Taxus cuspidata, 10 to 12 ins.
Taxus densiformis, 10 to 12 ins.
Taxus Halloran, 10 to 12 ins.
Taxus henryi, 10 to 12 ins.
Taxus hicksii, 10 to 12 ins.
Taxus Moon's columnaris, 10 to 12 ins.
Taxus Soblei, intermedia, 10 to 12 ins.
Taxus hunnewelliana, 10 to 12 ins.
Taxus thayerae, 10 to 12 ins.
Taxus wardi, 10 to 12 ins.
Taxus capitata, 3-yr. seedlings, 6 to 9 ins.
Thuja occidentalis, 3-yr. transp., 8 to 10 ins., heavy
Picea excelsa, selected understocks, transp.
Samples upon receipt of postage.
VERKADE'S NURSERIES New London, Conn.

QUALITY LINERS

	Per 100
Mugho Pine (dwarf), 3 to 5 ins., tr.	.....\$15.00
White Pine, 6 to 14 ins., tr.	.....15.00
Douglas Fir (blue), 5 to 10 ins., tr.	.....15.00
Colorado Blue Spruce, 5 to 10 ins., tr.	.....17.50
Koeleruteria pan., 12 to 15 ins., tr.	.....20.00
Canadian Hemlock, 5 to 12 ins., tr.	.....20.00
Cornus kousa (rare), 12 to 24 ins., tr.	.....20.00
Enkianthus camp., 8 to 12 ins., tr.	.....22.50
Viburnum carlesii, 12 to 14 ins., tr.	.....25.00
Strax japonica, 18 to 24 ins., tr.	.....25.00
Leucothoe catesbaei, 4 to 8 ins., tr.	.....25.00
Fr. Hybrid Lilacs (best var.), 1-yr.	.....35.00
Pink Flg. Dogwood, 12 to 18 ins., tr.	.....60.00
Pink Flg. Dogwood, 18 to 24 ins., tr.	.....75.00
Send for new spring list.	.....

POSSUM HOLLOW NURSERIES

6949 Henley St. Philadelphia 19, Pa.

HEAVY LINERS FOR SPRING

	Each
Azalea mollis	.....
1-yr., TT	.....\$0.25
2-yr., TT, br.	......35
3-yr., TT, potting grade, budded	......75
Leucothoe catesbaei	.....
7 to 12 ins.	......45
Pieris floribunda	.....
9 to 15 ins., budded	......75
Pieris japonica	.....
6 to 12 ins.	......45
12 to 15 ins.	......75
Rhododendron hybrid seedlings	.....
9 to 15 ins.	......15
Ilex hetzi	.....
9 to 15 ins.	......45

DUGAN NURSERIES, INC.

Center St. Perry, O.

LINERS FROM FIELD BEDS		Per 1
Taxus, browni, 1-yr., T, 6 to 8 ins.	.....	\$17.50
browni, 2-yr., T, 8 to 10 ins.	.....	25.00
browni, 3-yr., T, 8 to 12 ins.	.....	35.00
hatfieldi, 1-yr., T, 6 to 8 ins.	.....	17.50
hatfieldi, 2-yr., T, 8 to 10 ins.	.....	25.00
hatfieldi, 3-yr., TT, 10 to 12 ins.	.....	35.00
hatfieldi, 4-yr., TT, 10 to 14 ins.	hvy.	50.00
Kelseyi, upr., 2-yr., TT, 8 to 10 ins.	.....	35.00
Ilex opaca, vars.: Farage, Merry Christmas, male, 3-in. pots, 6 to 10 ins.		
to n. pot. to 10 in. to 12 in.	.....	35.00
Zelkova serrata, 2-yr. sdgls.	15 to 24	20.00
BLAKE'S NURSERY		
P. O. Box 93	Saddle River, N.	

LINING-OUT STOCK

POTTED LINERS	100	1000
Irish Juniper, 2 1/2-in. pots.....	\$0.22	\$0.20
Magnolia grand., 2 1/2-in. pots.....	.22	.20
Magnolia grand., 3-in. pots.....	.30	.28
Nandina domestica, 2 1/2-in. pots.....	.22	.20
Taxus cuspidata, 3-in. pots.....	.28	.25
Taxus densiformis, 3-in. pots.....	.28	.25
Taxus wardii, 3-in. pots.....	.28	.25
Taxus hicksii, 3-in. pots.....	.28	.25
Viburnum burkwoodii, 2 1/2-in. pots.....	.22	.20

SEEDLINGS

Green Ash, prices and sizes on request

Redbud

DONALD J. HILLENMEYER
313 Holliday Rd. Lexington, Ky.

ROOTED CUTTINGS

Each	100	1000
Arborvitae, pyramidal, 6 to 8 ins.....	\$0.10	\$0.09
Arborvitae, woodwardi, 6 to 8 ins.....	.10	.09
Juniper, Hetz, 6 to 8 ins.....	.10	.09
Juniper, Pfitzer, 6 to 8 ins.....	.10	.09
Juniper, Von Ehrh, 6 to 8 ins.....	.10	.09
Taxus cuspidata, 6 to 8 ins.....	.09	.08
Taxus brownii, 6 to 8 ins.....	.10	.09
Taxus capitata, 6 to 8 ins.....	.13	.12
Am. Arborvitae, 2-yr., S, 2 to 4 ins.....	\$20.00	per 1000.

5 per cent discount, cash with order.

MEADOWLARK NURSERY

350 Maynard, N. W. Grand Rapids, Mich.

LINING-OUT STOCK

SEE OUR DISPLAY AD
IN THIS ISSUE
ON PAGE 22.

CARTWRIGHT NURSERIES

Colliersville, Tenn.

LINING-OUT STOCK

	Per 100
Hex convexa, 3-yr., TT, 12 to 15 ins.....	\$25.00
Hex convexa, 1-yr., T.....	12.50
Pfitzer Juniper (compacta), 2-yr., T, 8 to 10 ins.	25.00
Hex rotundifolia, 15 to 18 ins., B&B, heavy	each, 2.00
Free samples on request.	
GREEN RIDGE NURSERY	
Cor. Lorain and Island Rds.	
North Ridgeville, O.	

GREEN RIDGE NURSERY

Cor. Lorain and Island Rds.
North Ridgeville, O.

100,000 FIELD-GROWN LINERS

Canada Hemlock, 5-yr., heavy rooted, TT, \$15.00 per 100, \$100.00 per 1000.
Norway Spruce, 4-yr., TT, \$8.00 per 100, \$80.00 per 1000.
Hard Sugar Maple, 3 to 4 ft., \$25.00 per 100.

Free packing on liners.

KANEFF'S NURSERIES

Glendale Rd. Marietta, O.

BEFORE YOU ORDER, CONSIDER

Successful nurserymen buy only top quality liners in the better varieties. "FINER LINERS" have been our goal for 40 years. You will like our prices too. Packing is free. Ask for latest list. Cash and quantity discounts.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

STRONG LINING-OUT STOCK

50,000 Hex rotundifolia 3 to 4 ins.....	3c
20,000 Ligustrum lucidum, 3 ins.....	2 1/2c

E. F. DUNBOSE NURSERY

Huntsville, Ala.

LINERS OF THE BETTER KINDS

Novelty and rare items.

Write for price list.

GULF STREAM NURSERY, INC.

Wachapreague, Va.

MAGNOLIAS

MAGNOLIA GRANDIFLORA

2 1/2-in. pots.

8 to 10 ins.....	12c
10 to 16 ins.....	16c
16 to 20 ins.....	18c
Qt. cans.....	20c
20 to 30 ins.....	25c
30 to 36 ins.....	30c
B&B stock.....	
2 to 3 ft.....	\$1.50
3 to 4 ft.....	2.00
4 to 5 ft.....	3.00
5 to 6 ft.....	4.00
6 to 7 ft.....	5.25
7 to 8 ft.....	6.75

The above liners were grown in the open and are hardy. The B&B stock will be wrapped in rot-proof burlap and string if so desired. Plants root pruned.

BIG RIVER NURSERY, DUNDEE, MISS.

Phone 572-R4, Tunica, Miss.

MAGNOLIAS

Each	100
Alexandrina, 2-yr., T cuttings, 18 to 24 ins.....	\$0.75
Soulangiana, 1-yr., T cuttings.....	.50
2-yr., T cuttings, 18 to 24 ins.....	.75

WHERE QUALITY EXCELS. NO CHARGE FOR PACKING.

C. HOOGENDOORN, NURSERYMAN

408 Turner Rd. Newport, R. I.

NEW ROYAL STAR HARDY MAGNOLIA

Large, fragrant pure white blossoms with 25 to 30 petals, a week to 10 days after stellata. Compact plant with bright green foliage. Sturdy, 18 to 24-in. plants in 1-gal. Nurseries, 10 plants per special crate, \$34.50; 2 crates, \$32.20; 5, \$22.50; 10, \$27.00. 20c per plant less at nursery. 2 per cent for cash. Shipped now or later.

JOHN VERMEULEN & SON, INC.

P. O. Box 336A Neshanic Station, N. J.

MAPLES

NORWAY MAPLE	Over
Straight, nursery-grown.....	10-40 50
10 to 12 ft., 1 1/2 to 1 3/4-in.....	\$6.75 \$5.50
11 to 13 ft., 1 1/2 to 2-in.....	7.75 6.50
12 to 14 ft., 2 to 2 1/2-in.....	11.00 9.00

No shipping.

HEYKOOP'S NURSERY

466 Newark, Pompton Turnpike

Pompton Plains, N. J.

SUGAR MAPLE LINERS

5 to 6 ft., br.....	\$0.60
6 to 8 ft., br.....	1.00
1 1/2 to 1 3/4-in., br.....	3.00
1 3/4 to 2-in., br.....	4.00

STRAUS LANDSCAPE NURSERY

202 E. Circle Ave. Prospect Heights, Ill.

Phone CL 3-2296. Call evenings.

NORWAY MAPLES

Nursery-grown, good heads.

Sizes from 1 1/2 to 5-in. cal. Special prices on surplus sizes from 3 to 5-in. cal.

FEENEY'S NURSERY

Bustleton Pike Feasterville, Pa.

2 miles from Phila. exit of turnpike

MAPLES

COLLECTED ACER

RUBRUM AND SACCHARUM

from whips to 4-in. caliper.

CURTIS NURSERIES, INC.

Callicoon, N. Y.

MYRTLE

HARDY MYRTLE

(Vince minor)

20 to 30 leads, \$8.00 per 100, \$50.00 per 1000; 2500 and up, \$45.00 per 1000.

Euonymus coloratus, heavy rooted cuttings, \$6.00 per 100, \$50.00 per 1000.

English Ivy, rooted cuttings, \$6.00 per 100, \$50.00 per 1000.

VAUGHAN'S NURSERY

R. R. 2, 15910 Cleveland Rd. Granger, Ind.

Phone So. Bend, CE 3-3318

Watch Your Results From

American Nurseryman Classified Ads.

PACHYSANDRAS

800,000 PACHYSANDRAS

Hand-selected, field-grown cuttings.

\$35.00 per 1000.

Free packing, check with order.

MARTIN VIETTE NURSERIES

Route 25-A East Norwich, L. I., N. Y.

Phones, Wells 1-2372 or Pershing 1-6255

200,000

PACHYSANDRAS

Strong rooted cuttings from July, 1960.

Ready now for spring delivery.

\$35.00 per 1000, lots of 5000 or more.

Check with order. Prompt shipment.

Write for free sample.

TOWN & COUNTRY NURSERY

4202 Fordleigh Rd. Baltimore 15, Md.

PACHYSANDRAS

1-yr.-old, frame-grown, well-rooted cuttings, \$5.50 per 100, \$43.00 per 1000; \$40.00 per 1000 for 5000 or more. Order now for immediate delivery.

RUSSELL GUTHRIE

123 Franklin St. Tarrytown, N. Y.

PACHYSANDRAS

Shipped now or reserved for you.

Foliage fed. Greenhouse grown.

Rooted in clean, white, silica sand.

\$35.00 per 1000.

THE JOSEPH F. MARTIN CO.

Painesville, O.

PACHYSANDRA TERMINALIS

1-yr., field-grown..... Per 100 Per 1000

3000 or more plants..... 42.50

2 1/2-in., pot-grown..... 11.50 105.00

HANSEN BROS. NURSERIES, INC.

Narberth, Pa.

Pachysandras, strong plants, grown in soil frames with light shade. First-class stock, \$6.50 per 100, \$53.00 per 1000; \$50.00 per 1000 for 5000 or more, including good packing.

Peekskill Nursery, Shrub Oak, N. Y.

PACHYSANDRAS

Strong rooted cuttings, \$4.25 per 100, \$40.00 per 1000. No C.O.D. orders.

DUNWOODIE NURSERIES

6 Smart Ave. Yonkers, N. Y.

PACHYSANDRA TERMINALIS

1-yr., field-grown, \$60.00 per 1000.

HILLCREST GREENHOUSES

Miller Park Franklin, Pa.

PEONIES

PEONIES

Adolphe Rousseau, Baroness Schroeder, Duchesse de Nemours, Festiva Maxima, Sarah Bernhardt, Lady Alex. Duff, Marie Lemoine, Mona, Jules Elie, Reine Hortense.

3-yr.-old, whole clumps, not divided, 6 eyes and up, \$75.00 per 100, \$700.00 per 1000; divisions, 3 to 5 eyes, \$40.00 per 100, \$350.00 per 1000.

VERKADE'S NURSERIES, WAYNE, N. J.

APRIL TREE PEONY SPECIAL

Grafted Tree Peonies, red, white, purple, pink, assorted; 2-yr., \$13.50 per 10. In APRIL, a yellow Tree Peony FREE with purchase of 10 others. Yellow Tree Peonies, \$20.00 per 10. Free general Peony list.

ATHA GARDENS, WEST LIBERTY 6, O.

GRAFTED TREE PEONIES

Red, white, pink, purple and two-tone.

2-yr., \$15.00 per 10, \$125.00 per 100, in balanced assortment. 50 take 100 rate. Pot now for spring sales. Cash with order.

BROOKFIELD GARDENS

Box #8 Brookfield, O.

PHLOX

PHLOX SUBULATA

(Creeping Phlox)

Admiration, cameo-pink with white eye

Alba, an excellent pure white

Astro, deep orchid-rose

Atropurpurea, rich wine-red

Blue Hills, attractive medium blue

Butterfly, lilac bluish, showy purple eye

Crimson Beauty, brilliant cyclamen-red

Dixie Brilliant, large red, slow grower

Red Wing, finest large flowering red

Sensation, bright pink with red eye

Transplants, \$9.50 per 100, \$90.00 per 1000.

Liners, \$5.00 per 100, \$45.00 per 1000.

250 or more of same variety at 1000 rate.

Prices are prepaid, we pay transportation.

Terms: Cash with order.

TANGLEWOOD FARM

P. O. Box 336-N Ph. 833-2588 Clinton, S. C.

PHLOX SUBULATA

Our field-grown creeping Phlox have proved to be money-makers for thousands of happy customers throughout the nation. 20 varieties available, at \$14.00 per 100, 250 or more of 1 variety at 12c per plant. Write for our new colorful wholesale catalog today.

WALTERS GARDENS

R. R. 2 Zeeland, Mich.

CREeping PHLOX (SUBULATA)

Well-developed, field-grown, best varieties.

Also 500 other popular perennials.

Available any time

for your best use and profit.

WELLER NURSERIES CO.

P. O. Box 1111 Holland, Mich.

PHLOX, UPRIGHT AND SUBULATA

Excellent plants for spring 1961. 32 varieties of upright Phlox and 9 varieties of subulata Phlox. All sand-grown.

Write now for list.

RICHARDS GARDENS

Box AN Plainwell, Mich.

Phlox subulata (Creeping Thrift), beautiful evergreen ground cover; large, field-grown plants, beginning to bud, bright red, pure white, rose-pink and blue, \$8.00 per 100, \$60.00 per 1000. Prompt shipment.

Tidwell Nurseries, Greenville, Ga.

HARDY PHLOX

See March 1 issue or write for our choice list of strong, heavy-rooted, sandy-soil, field-grown, summer-blooming Phlox.

FLOR-ACRES, BRIDGMAN, MICH.

Start Your Offer Now

in the American Nurseryman

And Watch Sales Climb

PIERIS

ANDROMEDA

(Pieris japonica)

One of the most beautiful broad-leaved

Evergreens.

Per 100 Per 1000

1 to 2 ins..... \$ 6.00 \$ 50.00

2 to 3 ins..... 8.00 75.00

4 to 6 ins..... 15.00 140.00

6 to 8 ins..... 20.00 190.00

300 at 1000 rate. Shipped prepaid to your nursery.

PLANE VIEW NURSERY

1355 W. Main Rd., Rt. 114 Newport, R. I.

PIERIS JAPONICA

Strong liners.

Per 100 Per 1000

4 to 6 ins..... \$15.00 \$140.00

6 to 8 ins..... 18.00 170.00

"ROEMER" NURSERY

278 Green Rd. North Madison, O.

PIERIS—Continued

PIERIS JAPONICA (ANDROMEDA)	
Landscape size. F.O.B.	
Each, 100 1000	
15 to 18 ins., B&B.....	\$2.25 \$2.00
18 to 24 ins., B&B.....	2.75 2.50
2 to 2½ ft., B&B.....	3.25 3.00

MENDONCA NURSERIES
935 East Main Rd. Middletown, R. I.

PRIVET

IBOLIM PRIVET, HEAVY 2-YR.	
Ohio-grown, cut back and well-branched. Dormant from storage.	
Per 100 Per 1000	
18 to 24 ins.	\$15.00 \$125.00
2 to 3 ft.	17.50 160.00
3 to 4 ft., extra heavy.....	22.50 200.00

All strong landscape grades.
SCARFF'S NURSERY, INC.
New Carlisle, O.
GENUINE AMUR RIVER NORTH PRIVET
2-YR., 9 to 12 ins., heavy branches, mostly
3 and 4 cane, \$7.00 per 100, \$50.00 per 1000;
12 to 15 ins., \$9.00 per 100, \$70.00 per 1000;
15 to 18 ins., \$12.00 per 100, \$100.00 per 1000.
Free packing on 1-yr. for orders of 5000
or more. All others packing at cost. We will
not ship 15 to 18 ins., 2-yr. Privet.

PAUL'S NURSERY
R. F. D. 3 Shelby, O.

Thousands of Amur River North Privet.	
Per 100 Per 1000	
18 to 24 ins.	\$3.00 \$25.00
2 to 3 ft.	4.00 30.00
3 to 4 ft.	5.00 40.00

Immediate shipment. Satisfaction guaranteed.
Robinson Nursery Co., Greenville, Ga.

PUSSY WILLOWS

FRENCH PUSSY WILLOWS	
100 1000	
18 to 24 ins., 2 canes.....	\$10.00 \$75.00
18 to 24 ins., 3 canes up.....	22.50 200.00
2 to 3 ft., 2 canes	12.50 100.00
2 to 3 ft., 4 canes up.....	25.00 225.00

KINGWOOD NURSERIES
Mentor, O.

Watch Your Results From
American Nurseryman Classified Ads.

RHODODENDRONS

RHODODENDRONS
We meet the most EXACTING REQUIREMENTS. The demand has been heavy for our liners, but we can still take a few more orders for spring delivery.

AZALEAS
We can supply seeds from ROOTED CUTTINGS to LANDSCAPE and SPECIMEN plants.

We are now propagating the NEWEST CULTIVARS of the LEADING BREEDERS. Also, such SPECIALTIES as

The Gold Cup Hybrids
Coral Bells Supreme
Salmon Bells
GLADSGAY GARDENS NURSERY
6311 Three Chopt Road
Richmond 26, Va.

RHODODENDRONS

Unnamed hybrids of hardy ponticum, ca-tawbiense parentage. Good caliper and foliage for grafting, growing on or over-the-counter sales. Firm lightweight ball. Bed-grown, XX transplants.

6 to 8 ins. 30c
4 to 6 ins. 25c
Minimum order 50 units per lightweight, frost-proofed crate. State shipping method.

CASH WITH ORDER.

RICHARD RESSEL NURSERIES
R. 1, Box 125A Mulino, Ore.

NAMED HYBRID RHODODENDRONS

Our special offer to budget customers for extra profits. Named Hybrid Rhododendrons in many varieties, 1½-yr.-old, well-branched, pinched twice and grown in lightweight peat moss. Ready to sell in a bright, green colored mache container, 6x7 ins., plus full color pictures attached to all plants. Ask for details as to price, varieties, etc.

WEST OREGON NURSERY
3550 N. W. Saltzman Rd. Portland 10, Ore.

Growers and shippers of a complete line of nursery stock.

RHODODENDRONS

Seeds, seedlings and transplants. Hybrids and species in \$1.00 packets, flats and peat pots. Free expert packing. Ask for list.

JOHN VERMEULEN & SON, INC.
P. O. Box 336A Neshanic Station, N. J.

RHODODENDRONS

HEAVY TRANSPLANTS
72 varieties.

Price list on request.

HOLLAND NURSERY PRODUCTS
P. O. Box 339 New York 10, N. Y.

HYBRID RHODODENDRONS

Excellent quality,
for landscaping and garden centers.

PARMENTIER'S ROSES
Bayport, L. I., N. Y.

Phone Bayport 8-0811.

Kordus Nursery, Huntington, N. Y., moved to Cranbury Rd., Jamesburg, N. J. Watch for our nursery when passing on N. J. Turnpike, between exit 8 and 9, opposite Phelps Dodge Corp. Open for business fall 1961.

RHODODENDRONS

Hardy, hybrid seedlings, liners.
Write for prices and sizes.

THE LEVICK NURSERY CO.
R. F. D. 3 Bridgeton, N. J.

ROSEBUSHES

EVERBLOOMING MINIATURE ROSES

World's largest selection, over 60 varieties.

"Money-makers." See them or write for list.

We ship branched own-root, 2½-in. pot size.

*Recommended for forcing Per 100 Per 1000

*RED, Spring Hill's choice..... \$4.00 \$35.00

*CUPIDO, nearly black-crimson..... 4.50 40.00

*MIDGET (pat. 446), fine rose-red..... 4.50 40.00

*MON PETIT, cherry-red..... 4.50 40.00

*OAKINGTON RUBY, favorited..... 4.50 40.00

*PRINCE CHARMING, crimson..... 5.00 45.00

*PINK, Spring Hill's choice..... 4.00 35.00

*BABY BUNTING, cameo-pink..... 5.00 45.00

*POMPADOUR DE PARIS, pink..... 4.50 40.00

*ROULETTTE, pink Swiss Alpine..... 4.50 40.00

*SIMPLE SIMON, new salmon-pk. 6.00 55.00

*WHITE, Spring Hill's choice..... 4.00 35.00

*PIXIE (pat. 408), tiny dbl. white..... 4.50 40.00

*WHITE FAIRY, best for forcing..... 4.50 40.00

*PRESUMIDA, orange bicolor..... 4.50 40.00

*BABY GOLD STAR (pat. 407), 6.00 55.00

*BIGGER FLOWERING MINIATURES

*CAROLYN, sunset orange-red..... \$5.50 \$50.00

*CRI-CRI, imported orange..... 6.00 55.00

*GRANADINA, imported crimson..... 5.50 50.00

*JACKIE, golden yel. to cream..... 4.50 40.00

*JULIETTE, vivid crimson..... 4.50 40.00

*PINK FAIRY, lovely soft pink..... 4.50 40.00

*POLKA DOT, finest pure white..... 4.50 40.00

*SPRING SONG, rich rose-pink..... 5.00 45.00

*THE MARR, terra-cotta red..... 5.00 45.00

SPRING HILL NURSERIES CO.

300 acres of nursery stock. Visit us! Write!

Dept. AN-F-60 F.O.B. Tipp City, O.

ROSEBUSHES

We grow our own Rosebushes and have over 120 varieties (patent and standard, OLD and NEW) to choose from. Our Rosebushes are grown 2 yrs. in the field under the expert supervision of one of the world's leading plant pathologists, using the Manzate-Triton method of disease control. Our Rosebushes are clean, healthy and just bursting with energy. Bare-root BULK Roses are packed FREE in corrugated Poly-line boxes. Please write, wire or telephone for our new variety and prices lists.

MARTIN'S ROSE NURSERY

P. O. Box 155 Phone UL 9-2191 Arp, Tex.

TREE ROSES

Select No. 1 grade standards. Varieties include current A. A. R. S. winners Duet and Pink Parfait, also Garden Party, Kordes Perfecta, Lavender Girl, Pink Peace as well as latest introduction Suspense and many others.

Our bush Rose crop is finest in a decade. We offer only quality stock at competitive prices. Write for complete list, then

Buy the best—Buy Klyn's.

GERARD K. KLYN, INC.

In the heart of famous Lake County

Mentor, O.

ROSES

Profit-wise nurseries, garden centers and mail-order firms depend on ARP ROSES.

Glittering packs to display. Bare-root for container or landscape. All-America Selections. Catalog and wholesale price list.

ARP NURSERY CO.

Box 3338-A Tyler, Tex.

For \$4.00

you can offer that surplus in a classified ad of 10 lines on these pages—quickly and easily turning stock into cash.

At 40c PER LINE

you can keep a list of specialty items before trade buyers through the selling season at small cost.

Send your copy (count 6 average words to line) for the May 1 issue to reach us April 14.

Forms for the May 15 issue will close April 28.

AMERICAN NURSERYMAN

343 S. Dearborn St. CHICAGO 4, ILL.

THE SEASON'S BEST DEAL

See for yourself

by sending for our 1960-61 trade list. WE STILL OFFER YOU A CHOICE OF BARE-ROOT AND PREPACKAGED, PATENT AND STANDARD ROSES. NEW LONDON ROSES "The Rose Nursery"

P. O. Box 876 Overton, Tex.

FINEST QUALITY ROSES SINCE 1923

Wide selection of non-patent and patent varieties, grown under a consistent and thorough spray program.

Your choice of BARE-ROOT OR PACKAGED Roses.

Write for list.

VERMAY NURSERY CO.

Dallas Highway Tyler, Tex.

Dept. 11. Phone LY 4-4432

ROSES

Hybrid Tea, bush; floribundas, grandifloras, climbers. Standard and patented varieties. No. 1. In bulk or packaged. Ask for quotations.

WAYNESBORO NURSERIES

Waynesboro, Va.

Rosebushes, 130 varieties. Old and new favorites. Many of the hybrid tea varieties were 4 to 5 ft. tall December 9, 1960, when this ad was sent in. Foliage very clean. These Roses will please your customers. Send for our list before you buy.

P. O. Tate Nursery, R. 3, Tyler, Tex.

TREE ROSES

No. 1, assorted varieties and colors, \$3.50 each, in 10 lots; \$3.25 each, in 100 lots.

WAYNESBORO NURSERIES

Waynesboro, Va.

ROSE STOCK

MULTIFLORA ROSE

For living fence, conservation and budding understock. Hardy northern-grown plants, nematode-free. Our sandy loam produces the finest root system. Our high quality is well known.

Caliper and approximate height Per 1000

2 to 3 mm., 8 to 15 ins..... \$12.50

3 to 5 mm., 12 to 18 ins..... 17.50

3 to 8 mm., 15 to 24 ins..... 22.50

4 to 6 mm., budding understock..... 27.50

Ask for quantity prices. We cut the tops back to about 10 ins. for shipping, unless you state otherwise. Prices are F.O.B. Glen Head. Packing at cost. For less than 1000, add 30 per cent.

BROOKVILLE NURSERIES

Box 53, Northern Blvd., Glen Head, L.I., N.Y.

THORNY ROSA MULTIFLORA

Straight shanked seedlings graded for understock.

6 to 8 mm. \$35.00 per 1000

4 to 6 mm. 27.50 per 1000

2 to 3 mm. 12.50 per 1000

Small conservation..... 12.50 per 1000

No packing charge. F.O.B. Milford, Del.

Tops cut back to about 16 ins. Special quotations on larger amounts.

DANEGGER'S HI-WAY NURSERY, INC.

P. O. Box 336 Milford, Del.

SEEDS

FOREST TREE SEEDS

Birches, Gray, Sweet, Yellow, Paper, Pinus, White, Red, Spruces, White, Black, Mountain Laurel.

Germination tested for positive production.

Convincing prices on any size order.

JOSEPH COLARUSSO

R. 2, Box 330 Avoca 2, Pa.

BLACK HILLS PONDEROSA PINE SEED

\$2.50 per lb.

This is good, clean, 1960 seed.

Sample upon request.

MRS. EARL BAKER

Box 53 Custer, S. D.

SHORT-LEAVED PINE SEED

(Pinus echinata)

Of excellent purity and germination.

Wholesale and retail quantities.

RIGDON'S TREE SEED

1715 W. Arrowhead Dr. Stillwater, Okla.

Junipers, clean seed: Virginiana (Platt),

\$3.00 per lb.; scopulorum (Colorado), \$3.00

per lb. Home Nursery, Cuba, Kan.

SHRUBS AND TREES

SHADE TREES

Variety In sizes up to and including

Pin Oak..... 1½-in.

Sweet Gum..... 1½-in.

Tulip Poplar..... 1½-in.

Silver Maple..... 1½-in.

Green Ash..... 2-in.

Sycamore..... 2-in.

Thornless Locust..... 1½-in.

Redbud..... 5 to 6 ft.

Please write for price list.

Trees grown in Fleming County, Ky.

Mail address:

HILL & PAT FARMS

313 Holliday Rd. Lexington, Ky.

Donald J. Hillenmeyer C. C. Patrick

ROOTED CUTTINGS, 1-YR. BEDDED

	Per 100	Per 1000
Azalea hinodogiri, 4 to 6 ins.	\$12.00	.....
Azalea Hino-Crimson, 4 to 6 ins.	12.00	.....
Buxus sempervirens, 4 to 6 ins.	10.00	\$ 90.00
Chamaecyparis cyano viridis, 4 ins.	12.00	.....
Chamaecyparis lutescens, 4 to 6 ins.	10.00	90.00
Ilex bullata, 4 to 6 ins.	10.00	90.00
Ilex crenata, 4 to 6 ins.	12.00	90.00
Juniper, Andorra, 4 to 8 ins.	12.00	100.00
Juniperus hibernica, 4 to 6 ins.	12.00	100.00
Juniperus hetzi, 4 to 6 ins.	12.00	100.00
Juniperus communis aurea, 4 to 6 ins.	12.00	.....
Leucothoe catesbaei, 4 to 6 ins.	12.00	.....
Pachysandra, 4 to 6 ins.	4.00	35.00
Pieris japonica, 4 to 8 ins.	12.00	100.00
Pyracantha laetida, 4 to 8 ins.	10.00	90.00
Picea pungens glauca, 4 to 6 ins.	10.00	90.00
Retinispora plumosa, 4 to 6 ins.	10.00	90.00
Taxus brevifolia, 4 to 6 ins.	10.00	100.00
Taxus browni, 4 to 6 ins.	12.00	100.00
Taxus brevifolia, 4 to 6 ins.	10.00	100.00
Taxus capitata, tips, 4 to 6 ins.	15.00	125.00
Taxus cuspidata, 4 to 6 ins.	12.00	100.00
Taxus cuspidata F&F compacta, 4 to 6 ins.	15.00	125.00
Taxus densiformis, 4 to 6 ins.	15.00	125.00
Taxus canadensis stricta, 4 to 6 ins.	12.00	100.00
Taxus hatfieldi, 4 to 6 ins.	12.00	100.00
Taxus henryi, 4 to 6 ins.	16.00	125.00
Taxus hicksii, 4 to 6 ins.	12.00	100.00
Taxus intermedia, 4 to 6 ins.	12.00	100.00
Taxus Moon's columnaris, 4 to 6 ins.	12.00	100.00
Taxus repandens, 4 to 6 ins.	12.00	100.00
Taxus Vermeulen, 4 to 6 ins.	12.00	100.00
English Ivy, 4 to 6 ins.	4.00	35.00
Thuja Biota aurea nana, 4 to 6 ins.	12.00	100.00
Thuja globosa, 5 to 8 ins.	12.00	100.00
Thuja pyramidalis, 4 to 6 ins.	10.00	90.00
Thuja nigra, 5 to 8 ins.	10.00	90.00

1-YR. SEEDLINGS

Acer palmatum, 4 to 6 ins.	6.00	60.00
Black Locust (Robinia pseudoacacia), 12 to 18 ins.	6.00	50.00
Taxus capitata, 3 ins.	4.00	30.00
Chinese Chestnut, 12 to 18 ins.	10.00	80.00
Taxus capitata, 4 to 6 ins.	7.00	60.00
(in large quantity, \$50.00 per 1000)		
Azalea mollis, 4 to 8 ins., transplanted	12.00	.....
Taxus capitata, 6 to 10 ins. (3-yr. seedlings)	10.00	90.00
(in large quantity, \$75.00 per 1000)		
3-YR. SEEDLINGS		
Balsam Fir, 4 to 6 ins.	5.00	40.00
Picea (White Spruce), 4 to 6 ins.	5.00	40.00
Pinus mughus Tyroleon, 3 to 5 ins.	6.00	50.00
Taxus diversifolia, 4 to 6 ins.	7.00	60.00
Concolor Fir, 4 to 6 ins.	8.00	70.00
Picea excelsa, 4 to 8 ins.	5.00	40.00
Douglas Fir, 6 to 8 ins.	6.00	50.00
Thuja occidentalis, 6 to 8 ins.	5.00	40.00

ROOTED CUTTINGS, 2-YR. BEDDED

	Per 100	Per 1000
Juniperus hetzi, 8 to 12 ins.	\$20.00	\$190.00
Retinispora pisifera aurea, 8 to 12 ins.	20.00	.....
Retinispora plumosa aurea, 8 to 12 ins.	20.00	190.00
Retinispora plumosa, 8 to 12 ins.	20.00	190.00
Pieris japonica, 6 to 10 ins.	20.00	190.00
Taxus cuspidata, 6 to 8 ins.	20.00	150.00
Taxus compacta, 5 to 8 ins.	25.00	200.00
Taxus intermedia, 6 to 8 ins.	20.00	150.00
Taxus browni, 6 to 8 ins.	20.00	150.00
Taxus hicksii, 6 to 8 ins.	20.00	150.00
Taxus brevifolia, 6 to 8 ins.	20.00	150.00
Taxus repandens, 6 to 8 ins.	20.00	150.00
Ilex bullata, 6 to 8 ins.	15.00	150.00
4-YR. TRANSPLANTS		
Taxus capitata, 8 to 12 ins.	20.00	150.00
Picea engelmanni, 5 to 8 ins.	8.00	70.00
Picea excelsa, 6 to 12 ins.	12.00	100.00
Picea pungens glauca, 6 to 10 ins.	12.00	100.00
Pinus mughus Tyroleon, 4 to 6 ins.	20.00	.....
Thuja occidentalis, 8 to 12 ins.	12.00	.....
Taxus canadensis, 5 to 8 ins.	10.00	90.00
Taxus canadensis, 8 to 10 ins.	15.00	140.00
Taxus canadensis, 10 to 12 ins.	20.00	190.00
5-YR. TRANSPLANTS		
Douglas Fir, 12 to 18 ins.	10.00	80.00
Concolor Fir, 6 to 10 ins.	15.00	130.00
Taxus canadensis, 10 to 15 ins.	30.00	250.00
Picea pungens glauca, 12 to 18 ins.	20.00	140.00
Picea (Felsa Spruce), 12 to 18 ins.	10.00	80.00
Picea excelsa, 12 to 18 ins.	10.00	80.00

POT-GROWN GRAFTS

	Per 100	Per 1000
Acer palmatum atropurpureum	\$ 65.00	.....
Fagus sylvatica riversi	60.00	.....
Magnolia stellata	60.00	.....
Magnolia Water Lily	60.00	.....
Picea moerhousii	100.00	.....
Picea pungens glauca hoopsii	125.00	.....
Picea kosteriana	100.00	.....
Pinus cembra	60.00	.....
VAN DINE NURSERY		
Berdan Ave.	Wayne, N. J.	

MAIL ORDER ITEMS

	EACH, 100	1000
Acer palmatum atropurpureum (dark Red Japanese Maple), selected types, strong 3-yr. grafts, 18 to 24 ins.	\$2.00	...
Buxus sempervirens, true, 2-yr. T (suitable for edging), 8 to 10 ins.	.20	\$0.17 1/2
Cornus elegantissima, 2-yr., 2 to 2 1/2 ft.	.25	...
Cornus florida rubra (Pink-flowering Dogwood), 18 to 24 ins., 2-yr. grafts	.90	.75
Euonymus alatus compactus (dwarf Winged Euonymus), 2-yr., T, 10 to 15 ins.	.30	.25
Euonymus alatus compactus (dwarf Winged Euonymus), 3-yr., T, 12 to 18 ins.	.45	.40
Fagus sylvatica riversi, 2-yr. grafts, 18 to 24 ins.	1.75	...
Ilex hetzi, 2-yr., T, 8 to 12 ins.	.30	.25
Ilex rotundifolia, 2-yr., T, 8 to 12 ins.	.30	.25
Magnolia soulangeana, 2-yr., T, cuttings, 18 to 24 ins.	.75	...
Picea pungens glauca (Colorado Blue Spruce), 4-yr., T, 6 to 9 ins.	.25	.20
Rhododendron carolinianum, 3-yr. TT, 6 to 10 ins.	.60	...
Rhus cotinus Royal Purple (new dark purple-red leaf Smoke-bush), 1-yr. grafts, bedded	.75	.60
Taxus cuspidata, 4-yr. TT, FR, 9 to 12 ins.	.60	.50
Taxus densiformis, 4-yr. TT, FR, 9 to 12 ins.	.75	.60
Thuja nigra, 2-yr. T, 12 to 15 ins.	.40	.35
Thuja orientalis aurea nana, strong 2-yr. T, cuttings, 10 to 12 ins.	.50	.45
Viburnum carlesii, 3-yr. seedlings, 12 to 18 ins.	.40	.35
Viburnum wrightii, 2-yr., S, 15 to 18 ins.	.15	.12

WHERE QUALITY EXCELS

NO CHARGE FOR PACKING
C. HOOGENDOORN, NURSERYMAN
408 Turner Rd. Newport, R. I.

SPECIAL OFFERING OF FINE STOCK

All well-grown, trimmed, B&B. Priced to move. Over 30 years' experience.	
Berkmans' Golden Arb. 18 to 24 ins.	\$1.50
Cedrus deodara (few), 6 to 8 ft.	\$8.50 to 14.00
Chinese Arb. (sheared), 3 to 3 1/2 ft.	2.50
Crape Myrtle, deep pink, 2 to 2 1/2 ft.	1.75
Ficus, black, brown, 4 ft. up, heavy	4.50
Hetz Juniper (Silver), sheared, 15 to 18 ins.	1.70
Hybrid Oaks, heavy caliper, 6 to 7 ft.	\$4.00 to 6.00
Gardenias, hvy. specimens, 24 to 30 ins.	2.25
Ilex crenata, heifer and dwarf, Yaupon, 15 to 18 ins.	3.25
Ilex crenata rotundif., heavy, sheared, 18 to 24 ins.	2.25
24 to 30 ins.	2.90
30 to 36 ins.	3.75
Ilex burfordi, sheared, well-branched, 18 ins.	2.00
24 ins.	2.90
30 ins.	3.50
36 ins., heavy specimens	3.75
36 ins., heavy specimens	5.00
Ligustrum nobilis (upright), 2 1/2 to 3 ft.	2.85
3 to 4 ft.	3.50
Ligustrum Waxleaf, heavy, sheared, 30x30 ins.	3.25
Magnolia grandiflora, heavy branched, 4 to 5 ft.	\$8.00
5 to 6 ft.	9.50
6 to 7 ft., few	12.50
Magnolia soulangeana, heavy, budded, 4 to 5 ft.	5.75
5 to 6 ft.	7.50
Pfitzer Juniper, 15 to 18 ins.	1.70
18 to 21 ins.	2.25
White Dogwood, 3 to 4 ft.	2.25
Can arrange deliveries at 40c per mile on our trucks, up to 5 1/2 tons, or send your own.	

HARRISON NURSERY
7244 Virginia Beach Blvd. Norfolk, Va.

SHRUBS AND TREES

Acer saccharum, 1 1/2 to 2 ins.	\$12.00
Acer saccharum, 2 to 2 1/2 ins.	15.00
Acer saccharum, 2 1/2 to 3 ins.	20.00
English Oak, 1 1/2 to 2 ins.	12.00
English Oak, 2 to 2 1/2 ins.	15.00
English Oak, 2 1/2 to 3 ins.	20.00
Pin Oak, 1 1/2 to 2 ins.	10.00
Pin Oak, 2 to 2 1/2 ins.	15.00
Pin Oak, 2 1/2 to 3 ins.	18.00
Red Oak, 1 1/2 to 2 ins.	10.00
Red Oak, 2 to 2 1/2 ins.	13.00
Red Oak, 2 1/2 to 3 ins.	15.00
Tilia cordata, 1 1/2 to 1 3/4 ins.	10.00
Tilia cordata, 1 3/4 to 2 ins.	14.00
Tilia cordata, 2 to 2 1/2 ins.	18.00
Halesia, single and multiple stems, 6 to 10 ft., heavy, BB.	\$5.00 and 10.00
Will load on your trucks.	
BELLE VALLEY NURSERY 5614 Martin Rd. Erie, Pa.	

LAND SOLD

Plants must go, Evergreens, Boxwood and shrubs. Also large southern Magnolias. Send want list.

BOXWOOD NURSERIES
Mocksville, N. C.

EVERGREEN SEEDLINGS

	100	1000
SCOTCH PINE (French or Spanish strain)		
2-yr. seedlings (2-0), 4 to 8 ins.	\$ 5	\$ 25
3-yr. seedlings (3-0), 8 to 16 ins.	8	40
WHITE PINE		
3-yr. seedlings (3-0), 5 to 10 ins.	8	40
4-yr. transplants, grafting size	15	75
MUGHO PINE		
4-yr. seedlings (4-0), 4 to 8 ins.	10	50
4-yr. transplants (3-1), 3 to 5 ins.	15	75
JAPANESE BLACK PINE		
2-yr. seedlings (2-0), 4 to 8 ins.	9	45
3-yr. seedlings (3-0), 8 to 14 ins.	12	60
WHITE SPRUCE		
3-yr. seedlings (3-0), 8 to 14 ins.	8	40
5-yr. transplants, grafting size	20	100
NORWAY SPRUCE		
3-yr. seedlings (3-0), 10 to 18 ins.	9	45
5-yr. transplants, grafting size	25	125
COLORADO BLUE SPRUCE		
3-yr. seedlings (3-0), 8 to 12 ins.	9	45
5-yr. transplants (3-2), 8 to 14 ins.	35	175
CANADIAN HEMLOCK		
3-yr. seedlings (3-0), 8 to 12 ins.	16	80
CONCOLOR FIR		
3-yr. seedlings (3-0), 6 to 12 ins.	8	40
4-yr. seedlings (4-0), 8 to 14 ins.	11	55
4-yr. transplants (3-1), 4 to 8 ins.	16	80
5-yr. transplants (3-2), 8 to 12 ins.	25	125
FRASER FIR		
2-yr. seedlings (2-0), 2 to 4 ins.	8	40
3-yr. seedlings (3-0), 5 to 10 ins.	12	60
BALSAM FIR		
3-yr. seedlings (3-0), 4 to 8 ins.	8	40
4-yr. transplants (3-1), 4 to 8 ins.	15	75
BARBERIES, GREEN		
2-yr. seedlings (2-0), 6 to 12 ins.	8	40
2-yr. seedlings (2-0), 12 to 18 ins.	10	50
WHITE FLOWERING DOGWOOD		
Seedlings, 4 to 8 ins.	7	35
Seedlings, 12 to 24 ins.	12	60

Box 160C Indiana, Pa.

1961 SPRING WHOLESALE LIST

	Per 100	Per 1000
3-yr. liners, 2 TT (from cuttings)		
Hicks Taxus, 8 to 10 ins.	\$30.00	\$250.00
Cusp. Taxus, 8 to 10 ins.	28.00	230.00
Ilex rotundifolia, 8 to 10 ins.	22.00	200.00
Juniperus hetzi glauca, 8 to 10 ins.	22.00	200.00
Juniperus hetzi glauca, 10 to 12 ins.	25.00	220.00
Juniperus hetzi glauca, 12 to 14 ins.	28.00	230.00
Amer. Arbor. (dark green), 10 to 12 ins.	25.00	220.00
Heavy liners, well-sheared, 5 to 6-yr.-old, 3 to 4 TT. Ideal for containers. Nursery row dug. Bare-root.		
Amer. Arborvitae, 20 to 24 ins.	\$60.00	
Juniperus hetzi glauca, 18 to 20 ins.	60.00	
Ilex rotundifolia, 10 to 12 ins.	50.00	
Andorra Juniper, 10 to 12 ins.	55.00	
Andorra Juniper, 12 to 14 ins.	60.00	
Pfitzer Juniper, 18 to 20 ins.	60.00	
Forsythia Spring Glory, 24 to 30 ins.	60.00	
250 plants at 1000 rate. Stock offered subject to prior sale. Free packing. F.O.B. Willoughby, O. Terms: 2 per cent discount for cash with order, or by express C.O.D. shipment. Open Sundays. Larger stock balled and burlapped to be picked up at nursery.		

LITTLE ACRES NURSERY
R. D. 5, Chardon Rd. Willoughby, O.

LANDSCAPE SIZE MATERIAL

	Each, 25	100
Taxus media hatfieldi, 18 to 24 ins.	\$2.75	
24 to 30 ins.	3.25	
Taxus cuspidata, 15 to 18 ins.	2.50	
18 to 24 ins.	3.00	
Taxus intermedia, 18 to 24 ins.	2.75	
24 to 30 ins.	3.50	
Taxus baccata repandens, 15 to 18 ins.	3.75	
Taxus hicksii, 18 to 24 ins.	2.75	
24 to 30 ins.	3.25	
Ilex crenata, 18 to 24 ins.	2.25	
Pieris japonica, 15 to 18 ins.	2.25	
18 to 24 ins.	3.25	
Ilex opaca (female), 3 1/2 to 4 ft.	5.25	
4 to 4 1/2 ft.	6.25	
Berberis julianae, 18 to 24 ins.	2.50	
24 to 30 ins.	3.25	
TURNEY'S LINCOLN WAY NURSERY R. D. 2 West, Box 12 Coatesville, Pa. 1 1/2 miles west of Coatesville on Route 30		
LOMBARDY POPLAR		
2-yr., 2 to 3 ft.	\$0.15	\$0.10
We have a large quantity of above.		
3 to 4 ft.	.25	.15
4 to 5 ft.	.50	.25
5 to 6 ft.	.60	.40
These have been cut back twice.		
3-yr., heavy branched		
6 to 8 ft.	.75	.60
8 to 10 ft.	1.10	1.00
10 to 12 ft.	1.50	1.00
Packing at cost.		

R. F. D. 3 PAUL'S NURSERY Shelby, O.

FINISHED STOCK ONLY

European Mt. Ash	London Plane
Clump Birch	Lombardy Poplar
Norway Maple	Tulip Trees
Silver Maple	Weeping Willow
Taxus, flowering shrubs and Malus.	
Send for prices.	

YORK NURSERIES

695 Elm St. Painesville, O.

SHRUBS AND TREES—Continued

SHRUBS AND TREES		
	Each	1000
<i>Euonymus alatus</i>		
2 to 3 ft.	.....\$0.85	\$0.80
3 to 3 1/2 ft.	.....1.15	1.00
<i>Euonymus alatus compactus</i>		
24 to 30 ins.	.....1.15	1.00
2 1/2 to 3 ft.	.....1.50	1.25
<i>Prunus cistena</i>		
2 to 3 ft.	......70	.65
3 to 3 1/2 ft.	......35	.80
LINING-OUT STOCK		
<i>Arborvitae</i> , Woodward globe		
9 to 12 ins.	.....\$0.50	\$0.40
12 to 15 ins.	......60	.50
<i>Arborvitae</i> , pyramidal		
15 to 18 ins.	......50	.40
18 to 24 ins.	......60	.50
<i>Juniperus hetzi</i>		
12 to 15 ins.	......40	.35
18 to 24 ins.	......50	.45
<i>Juniperus pfitzeriana</i>		
9 to 12 ins.	......35	.30
18 to 24 ins.	......50	.45
<i>Taxus cuspidata</i>		
9 to 12 ins.	......45	.40
<i>Taxus hicksii</i>		
6 to 9 ins.	......50	.45
<i>Euonymus alatus compactus</i>		
2-yr., T. 9 to 12 ins.	......25	.20

FANCHER'S NURSERY, Sturtevant, Wis.

SPECIAL PRICES

ON PIN AND RED OAK SEEDLINGS		
	Per 100	Per 1000
2 to 3 ft.	.....\$15.00	\$125.00
3 to 4 ft.	.....20.00	175.00

Are you needing large shade trees? Boy! We got 'em! Nursery-grown in 8-ft. rows: Pin Oak, 3 to 6-in. caliper
Sweet Gum, 2 to 5-in. caliper
Ash, 4 to 6-in. caliper
American Linden, 3 1/2 to 5-in. caliper
River Clump Birch, 10 to 12 ft.
Native trees in River Birch, rubrum Maple, Ash, Pin Oak, Gum, River Clump Birch, Sugar Maple, 1 1/2 to 3-in. caliper.
Write for special prices in quantity lots. Daily semi deliveries to Chicago area.
EGYPTIAN NURSERY & LANDSCAPE CO.
Phone 3551 Farina, Ill.

SHRUBS AND TREES

1000 Chinese Elm, 3, 4, 5 and 6-in. cal.	
3000 Silver Maple, 1 1/2, 2 and 2 1/2-in. cal.	
200 Norway Maple, 2 1/2 and 3-in. cal.	
150 Schvedler Maple, 2 1/2 and 3-in. cal.	
400 Sugar Maple, 1 1/2 and 2 1/2-in. cal.	
200 Amer. Sycamore, 1 1/2, 2 and 2 1/2-in. cal.	
500 European Birch, 4 to 5 ft. and 5 to 6 ft.	
1000 Mt. Ash, 5 to 6 ft. and 6 to 8 ft.	
1000 White Ash, 5 to 6 and 6 to 8 ft. to 2-in. cal.	
1000 Flowering Crab, 3 to 4, 4 to 5, 5 to 6 ft.	

Other trees in smaller quantities. Flowering shrubs in variety. See our ads under Evergreens, B&B's NURSERY

R. 2, Box 267 Decatur, Mich.
Phone Garfield 3-3739

EVERGREENS, WHOLESALE
A wide selection of Evergreen seedlings and transplants, also hardwoods, shade trees, ornamentals, shrubs and flowering trees. Our selected seed with good heredity and scientific culture assures healthy trees with heavy roots for rapid growth.

Musser offers quality trees at a price made possible through large quantity production. Our cold storage permits late shipments. No charge for packing and boxing. Ask for complete catalog and wholesale planting lists.

Our ad, which appears on page 16 of this issue, shows a partial list of seedlings and transplants.

Box 16-DC MUSSER FORESTS Indiana, Pa.

SURPLUS TREES		
	B&B	Bare-root
Honey Locust, thornless	.....\$4.50	\$5.00
Honey Locust, thornless		
2 1/2 to 3-in. cal.	.....6.50	4.00
Sweet Gum, 1 1/2 to 2-in. cal.	.....4.00	2.50
Sweet Gum, 2 to 2 1/2-in. cal.	.....5.00	3.50
Norway Maple, 1 to 1 1/2-in. cal.	.....3.00	2.00
Silver Maple, 1 to 1 1/2-in. cal.	.....1.50	
Sycamore, 1 1/2 to 2-in. cal.	.....3.50	2.00
Sycamore, 2 to 2 1/2-in. cal.	.....4.50	3.00
Pink Dogwood, 4 to 6 ft.	.....2.00	...

LAWRENCE SANDERS NURSERY

721 Kentucky Ave. Paducah, Ky.

ORNAMENTAL SHRUBS

Crab Apples, 40 varieties; 1-yr. trees and limited number 3-yr. transplants. Descriptive booklet available.
Thundercloud Plum, 1-yr. and 3 yrs., 6 to 8 ft.
Winter King Hawthorn, 1-yr. whips and 3-yr. transplants, 6 to 8 ft.
Taxus and large plants of Magnolia soulangiana.

SIMPSON ORCHARD CO., INC.
1504 Wheatland Rd. Vincennes, Ind.
Phone TU 2-2441.

WINTER JASMINE

(Jasminum nudiflorum)

2-yr., \$4.00 per 10, \$35.00 per 100.

3-yr., \$5.00 per 10, \$45.00 per 100.

WAYNESBORO NURSERIES

Waynesboro, Va.

HEAVY LINERS FROM FIELD BEDS

Per 100		
<i>Taxus hicksii</i> , 2-yr., 8 to 12 ins., T.....	\$30.00	
<i>Taxus cuspidata</i> , 2-yr., 8 to 12 ins., T.....	30.00	
<i>Taxus capitata</i> , 2-yr., 8 to 12 ins., T.....	32.00	
<i>Taxus brownii</i> , 2-yr., 8 to 12 ins., T.....	35.00	
<i>Taxus Vermeulen</i> , 2-yr., 8 to 12 ins., T.....	30.00	
<i>Taxus andersonii</i> , 2-yr., 8 to 12 ins., T.....	32.00	
The above varieties in 3-yr., TT.....	45.00	
The above varieties in 4-yr., TT.....	50.00	
The above varieties in 5-yr., TT.....	55.00	

STROHL'S NURSERY

5204 St. Joe Rd. Fort Wayne, Ind.

SHADEMASTER LOCUST

(PLANT PAT. NO. 1515)
The finest of all the thornless Honey Locusts. Straight, rapid growth. Transplants easily.

A money-maker for grower or landscape man.
8 to 10 ft., 1 to 1 1/2-in.\$ 7.00 \$5.50
9 to 11 ft., 1 1/2 to 1 3/4-in.9.50 7.50
10 to 12 ft., 1 3/4 to 1 1/2-in.11.00 9.00

PRINCETON NURSERIES

Princeton, N. J.

DWARF MAHONIA

Jack Mayhan is authority on mountain-grown Mahonia. This is a new variety selection, hardy as Oak. Very compact, dwarf. Ready now. 100,000 plants. All plants U. S. D. A. inspected. Cash in on my many years' experience.

2-yr., T, \$20.00 per 100, \$150.00 per 1000.

5 to 6-yr. finished plants, \$3.00 each.

Cash with order. Full return 5-day privilege.

MAYHAN NURSERY, VERADALE, WASH.

SURPLUS STOCK

HELP! HELP! HELP!

FORCED TO SELL OUT

9 ACRES OF NURSERY STOCK.

LAND MUST BE CLEARED BY JULY 1, 1961

Good selection of quality trees, shrubs and evergreens at give-away prices.

SEND FOR OUR LIST

Phone Oriole 6-0630. DO IT NOW!

E. H. MOUQUIN, INC.

Old Brookville, P. O. Glen Head, N. Y.

LITTLE LEAF EUROPEAN LINDEN

FINE QUALITY. GOOD HEADS.

FIBROUS ROOTS

10-49 50-250

6 to 8 ft., 1 to 1 1/2-in.\$ 4.50 \$ 3.60

8 to 10 ft., 1 1/2 to 1 3/4-in.7.00 5.50

9 to 11 ft., 1 3/4 to 1 1/2-in.9.00 7.25

10 to 12 ft., 1 1/2 to 2-in.12.00 10.00

11 to 13 ft., 2 to 2 1/2-in.15.00 12.00

PRINCETON NURSERIES

Princeton, N. J.

RHODODENDRONS

Hybrids in varieties. True Red Jap. Maples, also the new Bloodgood variety. Own-root grown. Liners and finished plants. Our complete list of many items of choice nursery stock is now ready. See our beautifully grown Taxus, Ilex, Azaleas, etc.

GERARD K. KLYN, INC.

Mentor, O.

Wholesale Nurserymen

HONEY LOCUST, THORNLESS

2 to 5-in. trees.

AMERICAN SYCAMORE

2 to 6-in. trees.

We need to move these. Write or call for quotations. Shipments B&B or bare-root can be arranged.

NEW AUGUSTA NURSERY, INC.

New Augusta, Ind.

Phone Indianapolis, AX 1-6144

200 SHADEMASTER LOCUST

8 to 15 ft., \$4.00.

You dig, bare-root.

Land sold. Trees must be removed.

Pickup only.

Other items upon request.

STADLER NURSERY

1908 Glenallan Ave. Silver Springs, Md.

EXTRA! SPECIAL ON BUISMAN ELMS

(Resistant to Dutch Elm disease.)

Transplanted whips. Root cutting grown.

4 to 5 ft., 5 to 6 ft., 6 to 7 ft.

Spaced trees, twice transplanted.

2 to 2 1/2 ins. 2 1/2 to 3 ins. 3 to 3 1/2 ins.

Attractive quantity prices.

Come out and look at this material.

RALPH SYNNESTVEDT & ASSOCIATES

3602 Glenview Rd. Glenview, Ill.

MAPLES, BIRCHES, COLLECTED N. H.

Sugar Maples, 2 1/2 to 3 1/2 ft.\$15.00 per 100

White Birch, 3 1/2 to 4 1/2 ft.20.00 per 100

White Pine, 2 to 3 ft.2.25 each

Canadian Hemlock, 2 to 3 ft.2.25 each

NURSERY JUNIPER, Hetz,

Pfitzer, Andorra, any,

15 to 18 ins.2.00 each

Juniper, 18 to 24 ins.2.50 each

MAPLEWOOD NURSERY, FRANKLIN, N.H.

PLATANUS ACERIFOLIA

(London Plane, best strain.)

Each, 100 1000

2 to 3 ft.\$0.25 \$0.18

3 to 4 ft.35 .25

4 to 5 ft.45 .35

5 to 6 ft., transplants1.50 1.25

BULK'S NURSERIES, INC.

610 W. Montauk Hwy., Babylon, L. I., N. Y.

COLLECTED STOCK

CANADIAN HEMLOCK

SUGAR MAPLES

BIRCH CLUMPS, FERNS

AND WILDFLOWERS

Send for wholesale list.

LAMPREY RIVER NURSERY

Radford H. Palmer

R. F. D. 1 Durham, N. H.

TRANSPLANTED SHADE TREES

Green Ash, 1 1/2 to 1 1/2-in. cal.\$2.00

Silver Maple, 1 1/2 to 2-in. cal.3.00

Chinese Elm, 1 1/2 to 2-in. cal.3.00

Thornless Honey Locust, 1 1/2 to 1 1/2-in. cal.3.00

Sycamore, 1 1/2 to 2-in. cal.3.00

KINAST NURSERY

On Route 173, 2 miles west of Route 45,

P. O. Box 286 Antioch, Ill.

Phone Antioch 2222

CHINESE ELM

6 to 12 ins., seedlings\$1.25 \$10.00

12 to 18 ins., seedlings2.00 15.00

18 to 24 ins., seedlings2.75 22.50

2 to 3 ft., seedlings4.00 35.00

Free packing. Samples if requested.

ROGERS & KOPFENHEFFER NURSERY

2029 Judson Dr. Manhattan, Kan.

LARGE SHADE TREES

Pin Oak, Red Oak, Sweet Gum,

4 to 10-in. caliper.

Many other landscape items

in specimen material. All nursery grown.

65 acres. Established 40 years.

GEO. F. BLOOMER NURSERIES

Route 69 Flemington, N. J.

FOTHERGILLA GARDENI

See American Nurseryman, January 15, 1959.

2-yr. bedded plants\$50.00 per 100

RHUS COTINUS ROYAL PURPLE

1-yr. bedded cuttings50.00 per 100

MAHLSTEDE BROS.

5323-51 Wilson Mills Rd., Cleveland 24, O.

Surplus Stock

can be easily and quickly turned into

Cash

by listing it in the

American Nurseryman Classified Ads.

STRAWBERRIES

PACKAGED STRAWBERRY PLANTS

For your retail trade, packed in polyethylene, 25 plants wrapped in attractive colored picture package, each with complete growing guide.

Blakemore, Dunlap, Robinson, Armore, 20

package crate, \$7.00; 40 package crate, \$14.00.

Pocahontas, 20 package crate, \$7.50; 40

package crate, \$15.00.

Ozark Beauty and Ozalalla, the very best

everbearing, 20 package crate, \$10.00; 40

package crate, \$20.00.

Bulk plants in bundles of 25, packed 1000

plants to crate. Blakemore, Dunlap, Robin-

son, \$8.00 per 100. Armore, \$9.00 per 100.

Pocahontas, \$10.00 per 1000.

All plants certified and virus-free.

Prompt shipment. Live arrival guaranteed.

SHANK FARMS, GRANBY, MO.

TENNESSEE'S FINEST

CERTIFIED STRAWBERRY PLANTS

Priced per 1000, F.O.B.

Blakemore\$6.00 Tenn. Shipper ..\$5.00

Dunlap6.00 Empire10.00

Dixieland8.00 Sparkle10.00

Premier8.00 Pocahontas12.00

Robinson8.00 Gem Ebb12.00

Tenn. Beauty8.00 Superfection Ebb 12.00

100 plants, \$2.50, postpaid.

SMITH BERRY GARDENS

Phone (Chattanooga) FI 4-6758,

Ooltewah, Tenn.

STRAWBERRY PLANTS

Certified and virus-free; choice, well-rooted.

Blakemore, Robinson, Dunlap, \$8.00 per

1000. Armore, \$9.00 per 1000. Pocahontas,

\$10.00. Everbearing Ozark Beauty and Oga-

lalla, \$18.00 per 1000. Well-packed in bundles

of 25. Prompt shipment. Live arrival

guaranteed.

HAMES STRAWBERRY NURSERY

Goodman, Mo.

STRAWBERRY PLANTS

26 varieties Strawberry plants, including

New Ogala, Cyclone, Trumpeter and

Earlmore. Write for list.

RIDER NURSERY, FARMINGTON, IA.

Turn your Surplus Stock

into cash

with a Classified Ad in

the American Nurseryman.

TAXUS

TAXUS. 100 1000

Densiformis, 2-yr., bedded\$20.00 \$175.00

Brown, 2-yr., bedded17.50 150.00

MAHLSTEDE BROS.

5323-51 Wilson Mills Rd., Cleveland 24, O.

TAXUS LINERS

- 3-yr., T, 20c each, per 1000.
2700 capitata seedlings
2000 hicksi
300 densiformis
500 cuspidata
4-yr., T, 30c each, per 1000.
350 browni
5000 hicksi
2000 cuspidata
500 capitata seedlings
5-yr., T, 40c each, per 1000.
1100 Vermeulen
300 browni
500 cuspidata
300 or more total order get these prices.

S. D. HOCKING & SONS
Durham Road, Route 77
Guilford, Conn.

TAXUS CAPITATA

- Upright Japanese Yew,
grown from Japanese imported seed.
2-yr. seedlings. Seed sown lightly.
75,000 2-yr. seedlings, 1000 10,000
4 to 6 ins. \$75.00 \$600.00
65,000 2-yr. seedlings, 90.00 750.00
6 to 8 ins. 90.00 750.00

SHADE'S NURSERY

624 Colonial Club Dr. Harrisburg, Pa.
Phone Harrisburg KI 5-5417
5 miles east of Harrisburg on U. S. Route
22. Turn north at Inn. 22, nursery 1 mile
north of U. S. Route 22.

TAXUS

- | | EACH, 100 | 1000 |
|-----------------------|-----------|--------|
| Brevifolia, 2-yr., T | \$0.40 | \$0.35 |
| Browni, 2-yr., T | 40 | 35 |
| Cuspidata, 2-yr., T | 40 | 35 |
| 4-yr., TT, FR. | 60 | 50 |
| Densiformis, 2-yr., T | 45 | 40 |
| 4-yr., TT, FR. | 75 | 60 |
| Hatfield, 2-yr. | 40 | 35 |
- WHERE QUALITY EXCELS. No charge
for packing.

C. HOOGENDOORN

408 Turner Rd. Newport, R. I.

TAXUS

- Japanese Yew (capitata), from seed.
(3-2-3), 10 to 18 ins., T, \$1.00 each.
Twice sheared, good color, massive roots.
(3-0), 3-yr., S, 4 to 8 ins.,
\$85.00 per 1000, \$10.00 per 100.
(2-0), 2-yr., S, bed-run, 2 to 6 ins.,
\$60.00 per 1000, \$7.50 per 100.
Also Pine, Spruce, Fir.

DENTON NURSERY

Route 1 Conneaut, O.

- | | 100 | 1000 |
|--------------------------------|--------|--------|
| SHEARED TAXUS | | |
| Taxus hicksi, 18 to 24 ins. | \$3.25 | \$3.00 |
| Taxus cuspidata, 15 to 18 ins. | 3.00 | 2.50 |
| Taxus cuspidata, 18 to 24 ins. | 3.50 | 3.00 |
| Taxus cuspidata, 24 to 30 ins. | 4.50 | ... |
| Taxus thayerae, 15 to 18 ins. | 3.00 | 2.50 |
| Taxus thayerae, 18 to 24 ins. | 3.50 | 3.00 |
| Taxus thayerae, 24 to 30 ins. | 4.50 | ... |
- B&B, F.O.B. nursery. Terms cash.
WICK'S NURSERIES
Jamesport, L. I., N. Y.

SURPLUS TAXUS

- | | 10-49 | 50-200 |
|-----------------|--------|--------|
| Media Vermeulen | \$5.00 | \$4.75 |
| 2 to 2 1/2 ft. | 6.00 | 5.75 |
| Media thayerae | 5.00 | 4.75 |
| 2 1/2 to 3 ft. | 6.00 | 5.75 |
- Clean, heavy, good color. Insp. invited.
H. E. BARRETT & SON
17 Maple Ave. Baltimore 28, Md.

40,000 3-YR.-OLD YEW LINERS
Grown 2 years in full sun. Extra heavy.

- Taxus cuspidata
Taxus hicksi
Taxus hatfieldi
In 1000 lots, 18c.

CLARKS NURSERY &
GARDEN CENTER
Clarksburg, Ind.

TAXUS CAPITATA

- 18 to 24 ins., \$4.00; 24 to 30 ins., \$4.50;
30 to 36 ins., \$5.00; 36 to 42 ins., \$6.00.

TAXUS CUSPIDATA

- 18 to 24 ins., \$3.25; 24 to 30 ins., \$4.00;
30 to 36 ins., \$4.50.

These are of heavily sheared and root-
pruned stock. Prices net. B&B at nursery.

STAGE NURSERIES

1 West 4th Ave. Clearfield, Pa.

TAXUS LINERS

- 2-yr. in open beds, banded.
Hatfield, heavy liners 26c each
Hicks, heavy liners 26c each
Cuspidata, heavy liners 26c each
Anderson, heavy liners 26c each

HARMAN NURSERY
22 Godwin Lane St. Louis 24, Mo.

TAXUS

- Hicksi, cuspidata, intermedia.
15 to 18 ins., sheared \$1.75
18 to 24 ins., sheared 2.50
24 to 30 ins., sheared 3.50

FEENEY'S NURSERY

Bustleton Pike Feasterville, Pa.
2 miles from Phila. exit of turnpike

VEGETABLE PLANTS

VIGOROUS

FOR FLORISTS AND GARDEN SHOPS
Wide selection of Vegetable Plants, in-
cluding all leading varieties and many hy-
brids. Fast service and convenient packag-
ing. These outdoor-grown plants are much
stronger than hothouse plants and are
rushed direct to you from our fields. They
are freshly dug and fully guaranteed to
arrive in good condition. We invite you to
open an account or will ship C.O.D. Write,
wire or call us today. We can ship by rail
express, or if over 5000 plants by air freight.
Per 1000

- Golden Acre Cabbage plants \$2.00
Yellow Sweet Spanish Onion plants 1.50
Beefsteak, Valiant, Rutgers Tomato
plants 4.50

Burpee Big Boy® F-1 Hybrid
Tomato plants 20.00

California Wonder Sweet Pepper plants. 4.75
The above prices are F.O.B. Albany. Mini-
mum quantity of 500 of one variety, please.
Write for our 55th anniversary catalog de-
scribing many other varieties.

(Reg. T.M. W. Atlee Burpee Co.)

PIEDMONT PLANT CO.

Dept. 901 Albany, Ga.

FOR GARDEN AND NURSERY SHOPS

WRITE FOR COMPLETE WHOLESALE

LIST OF POPULAR VARIETIES

Cabbage, 20 popular varieties 2000, \$5.40

RED Hollander, Wisc. Y. R.
Cabbage 1000, 3.65

Onions, 4 popular varieties 6000, 5.40

HYBRID Onions, Yellow Spanish. 6000, 6.95

State inspected. Shipped by express now.

All guaranteed, fresh pulled, true to name.

Tomato, Pepper, Yam plants ready in April.

FARRIER PLANT FARMS

Box AN787 Omaha, Texas

VIBURNUMS

VIBURNUM CARLESI

Fragrant Mayflower Viburnum.
2-yr. seedlings, 4 to 6 ins., \$15.00 per 100,
\$125.00 per 1000; 6 to 8 ins., \$20.00 per 100,
\$175.00 per 1000; 3-yr. seedlings, 12 to 18
ins., \$40.00 per 100, \$350.00 per 1000.

WHERE QUALITY EXCELS. No charge
for packing.

C. HOOGENDOORN
408 Turner Rd. Newport, R. I.

VIBURNUM CARLESI COMPACTA (NEW)
This is a compact form of Viburnum car-
lesi with dark green leaves and buds up very
readily.

Strong 2-yr. grafts, \$125.00 per 100, \$1000.00
per 1000.
WHERE QUALITY EXCELS. No charge
for packing.

C. HOOGENDOORN
408 Turner Rd. Newport, R. I.

VIBURNUM CARLESI 10 100
18 to 24 ins. \$14.00 \$120.00
2 to 3 ft. 20.00 180.00

Ask for prices on B&B specimens.
WAYNESBORO NURSERIES
Waynesboro, Va.

VINES

BALTIC AND ENGLISH IVY
Extra heavy, 2 1/2-in. pots, \$135.00 per 1000.

EUONYMUS COLORATUS Each, 1000

Heavy layers \$0.10
6 to 10-in. transplants15

1-yr. field25
2-yr. field35

SCARFF'S NURSERY, INC.
New Carlisle, O.

VINES

Each
Boston Ivy, 12 to 18 ins. \$0.30

18 to 24 ins.45
2 to 3 ft.50

Please write for quotations on 100 and 1000
lots.

DUGAN NURSERIES, INC.
Center St. Perry, O.

Surplus Stock
can be easily and quickly turned into
Cash

by listing it in the
American Nurseryman Classified Ads.

VIOLAS

VIOLA CORNUTA

(Perennial Tufted Pansies)
Red, blue, apricot, deep purple, yellow,
white, mixed.

\$2.00 per 10, \$15.00 per 100.

KINGWOOD NURSERIES
Mentor, O.

WANTED

WANTED, EARLY SPRING

Field liners and strong outside rooted cut-
tings

3000 Andorra Juniper
3000 Andorra compacta Juniper

3000 Pfitzer compacta Juniper
3000 Pfitzer glauca Juniper

1000 Pfitzer glauca (Hetz) Juniper
1000 Pfitzer aurea Juniper

1000 Golden Canadian spreader
Will exchange, 5000 2-yr. and 15,000 1-yr.

Sarcocoe Euonymus, heavily rooted in out-
side beds of perlite and peat mixture, or
will pay cash. Phone LO 3-8248

MASON'S NURSERY
27201 Van Born Rd. Taylor, Mich.

WANTED

DWARF APPLES, Jonathan, Red Delicious,
Yellow Delicious, Yellow Transparent, Red
McIntosh.

DWARF PEAR, Bartlett.

DWARF PEACHES, Sunhaven, Redhaven,
Fairhaven, Richhaven, Elberta.

State understock used.

GROOTENDORST NURSERIES

Lakeside, Mich.

WANTED

SURPLUS NURSERY STOCK

Interested in substantial quantities of
quality stock for wholesaling to garden cen-
ters, chain stores, landscapers and builders
in New England. Write us today! Cash paid.

ARTHUR GAKLIS
"GOLD STAR" WHOLESALE NURSERY SALES
South Ave. (R. 30), Weston 93, Mass.

WANTED

100 grafted plants.
Flowering Dogwood, Cherokee Chief only.

TRAAS' NURSERY
Langley, B. C., Canada

WANTED

Austrian Pine, 14 to 24 ft.
CURTIS NURSERIES, INC.
Callicoon, N. Y.

SUPPLIES

BURLAP

HOLLAND BURLAP squares, for all needs.
PLAIN, ROT-NOT GREEN plastic preserved.
HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES

DELIVERED PRICES

EXTRA HEAVY.

NATURAL BAMBOO STAKES

DIRECT FROM THE PRODUCER

Now in our 20th yr. supplying millions of
stakes to leading growers throughout the
United States and Canada.

Specifications represent approximate average
diameter at bottom end.

DELIVERED PRICES PER 100 STAKES
(See below)

Length	% to 1/2 in.	% to 3/4	% to 1	1 1/2 to 1 3/4
4 ft.	\$3.90	\$5.00	\$5.50	\$6.00
5 ft.	4.90	5.90	6.80	7.90
6 ft.	5.90	7.30	8.50	10.30
7 ft.	9.00	10.30	11.60	
8 ft.	10.80	12.00	13.90	
10 ft.	15.00	17.50		
12 ft.	18.50	19.90		

Above prices include delivery in the con-
tinental United States east of the Rockies.
Cash orders will be shipped prepaid. Full
freight allowed to established accounts.

Freight allowance applies to orders for a
minimum total of \$20.00. Less quantity, less
15 per cent. F.O.B. here.

A. C. PATTERSON, FRISCO, LA.
Formerly of Centertown, Ky.

CANE STAKES

Green dyed and plain yellow Bamboo. All
sizes.

GOLD MEDAL BRAND

Your guarantee of satisfaction. Come to
American headquarters when you are in
the market.

GEO. H. MAUS, INC.

BAMBOO IMPORTERS
Since 1905 Amsterdam, N. Y.

CANE STAKES

A complete line of bamboo cane stakes,
from 12 ins. to 8 ft. Available from 7 con-
venient freight-saving shipping points.

Write for details to America's largest hor-
ticultural bamboo distributor.

McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.
2505 S. E. 11th Ave. Portland 2, Ore.

OUTDOOR BAMBOO STAKES

All sizes for immediate delivery.
Ask for our Nursery Supply List.

HALF MOON CO., Box 27A, Plainfield, N. J.

CANE STAKES—Continued

BAMBOO CANE STAKES
For greenhouse and nursery purposes.
All types and sizes.
Write for prices and quantity discounts.
ALEC HENDERSON, INC.
1313 W. Randolph St. Chicago 7, Ill.

CONTAINERS

CANS
Egg cans or gallons,
by freight car or truckload.
Punched egg cans, 8c.
at source of supply.
Punched gallon cans, 4c.
at source of supply.
Also California style dipped cans.
McGREGG BROS. CAN SUPPLY
Box 355 Orrville, O.
Planters, see our display ad on page 129.
Louisville Coopers Co., Louisville, Ky.

Turn your Surplus Stock
into cash
with a Classified Ad in
the American Nurseryman.

FERTILIZERS

PETERS SPECIAL
A complete line of soluble and long-life
fertilizer formulas specially designed for the
commercial grower and manufactured by
the Robert B. Peters Co., Inc., the trade's
leading commercial soil test laboratory.
Drop a card for complete price list and your
free brochure, "The Peters System of Soil
Fertility Control."

ROBERT B. PETERS CO., INC.
2833 Pennsylvania St. Allentown, Pa.

Check Your Stock NOW!
If you have a surplus
sell it through the
American Nurseryman Classified Ads.

FLATS

WHITE CEDAR FLATS			
Order by No.	Size	Price per 100	Wt. per 100
No. 1.	14x20x2 1/2-in.	27.75	320
No. 2.	14x20x3-in.	32.00	400
No. 3.	12x16x2 1/2-in.	21.00	260
No. 4.	12x16x3-in.	24.75	275
No. 5.	14x16x2 1/2-in.	23.75	275
No. 6.	14x16x3-in.	28.00	290
No. 7.	15x22x2 1/2-in.	31.50	380
No. 8.	15x22x3-in.	35.75	425
No. 9.	11 1/4x22x2 1/2-in.	25.75	320
No. 10.	11 1/4x22x3-in.	29.50	400
No. 11.	14x16x5-in.	32.75	450
No. 12.	6x11x5-in.	16.75	160
No. 13.	6x16x5-in.	19.00	215
Plant boxes, 5 1/2x11 1/2x2 1/2-in.		8.00	60
Plant boxes, 5x8 1/2x2 1/2-in.		5.50	45

Skeleton flats to carry TEKPAKS and similar growing containers. (Write us for price list.)

All other sizes quoted on request.
Bottoms and sides are 3/4-in. thick and ends are 1/2-in. thick. Plant boxes are made of thinner lumber. Your name and address printed, up to 3 lines in black ink, on one or both end pieces at the following rates: \$1.00 setup charge, plus 3/4c per end piece. Shipped K.D. in units of 25. F.O.B. Cook. All shipments by truck unless otherwise specified.

QUANTITY DISCOUNTS

Order totaling \$100.00 to \$200.00, 5 per cent; \$200.00 to \$400.00, 6 per cent; \$400.00 to \$600.00, 7 per cent; \$600.00 to \$800.00, 8 per cent; \$800.00 to \$1000.00, 9 per cent; \$1000.00 and over, 10 per cent.

TERMS: 2 per cent, check with order; 1 per cent 30 days, net 60.

H. C. HILL & SONS, INC.
Phone North 6-3348 Cook, Minn.

CYPRESS FLATS

TOP GRADE FLATS THAT LAST			
No.	Size I.S.M.	Per 100	Wt.
1.	14x20x2 1/2 ins.	\$25.80	590
2.	14x20x3 ins.	30.00	680
3.	12x16x2 1/2 ins.	20.00	440
5.	14x16x2 1/2 ins.	22.50	510
7.	15x22x2 1/2 ins.	29.50	670
8.	15x22x3 ins.	33.80	780
9.	11 1/4x22x2 1/2 ins.	23.50	540

Any size to order. Bottoms and sides 3/4-in. thick; ends 1/2-in. All planed one side.

5 per cent discount on orders for 500 or more. Terms: Cash. Up to 2 lines printing. \$1.00 setup charge plus 1c per end piece. Shipped K.D., units of 25. F.O.B. Williams- ton, N. C., truck.

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CYPRESS FLATS, K.D.

Finest stock obtainable. Guaranteed all clear heart. Size 20x15x3 ins. inside measure, \$38.00 per 100.

1x1-in. cypress stakes, pointed.
50 pcs. to bundle, 4 ft., \$3.50 per bdl.
50 pcs. to bundle, 5 ft., \$4.50 per bdl.
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Ship same day.

YOHO & HOOKER, YOUNGSTOWN, O.

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DAHLIA OR TREE LABELS			
		Plain	Painted
3 1/4 x 5/8 ins., notched, not wired	\$3.00		\$3.60
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POT LABELS			
4 x 5/8 ins. (cartons 1000 each)	3.95		4.60
5 x 5/8 ins. (cartons 1000 each)	4.30		5.10
6 x 5/8 ins. (cartons 1000 each)	4.70		5.80
GARDEN STAKES			
8 x 3/4 ins. (cartons 500 each)	\$3.50		\$4.30
10 x 3/4 ins. (cartons 500 each)	4.20		5.10
PLASTIC LABELS			
8 x 3/4 ins. (cartons 250 each)	3.00		3.60
10 x 3/4 ins. (cartons 250 each)	3.30		3.90
11 x 1 1/8 ins. (cartons 100 each)	2.00		2.40

Our labels are perfectly white and smooth on both sides and are pronounced by growers the best and most economical.

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PLASTIC LABELS
Perma Plastic labels made of DuPont plastic. The kind that lasts and lasts. Easy to mark with pencil.
3 1/4 x 5/8-in., copper wire 1000 for \$4.90
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3 1/4 x 5/8-in., pot labels 1000 for 6.80
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Please include 50c for postage and packing.
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For pots, trees and shrubs, plain and printed, up to 6 lines, black, red or green ink. Available in 4 fade-proof colors. Plastic price cards, plain and printed (classified). Write for price list and samples. Mfg. by
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FINEST BLANK OR PRINTED WOOD LABELS.
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NEAT, NEW, ATTRACTIVE, MOISTURE-PROOF BALE, POLYETHYLENE INNER WRAP. Heavy paper outer wrap. 6 cu. ft. compressed German peat. Best of the unfertilized baled peat mosses. Available Dallas or Scottsville. Deliveries in truck lots (250-275 bales). In Austin, San Antonio, Waco, Dallas, Ft. Worth, Tyler, Shreveport and other places for less than Canadian brands. Call for truckload rates.

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Scottsville or Dallas, Tex.
Phone WE 6-6641 at Marshall or Chapel 7-7131.

"BRODLEAF." Best Holland PEAT MOSS. Gardener No. 110 and No. 85, Growers No. 120. Growers Jumbo No. 170. Two Bales Equal 3. **HALF MOON CO., Box 27A, Plainfield, N. J.**

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"QWIK-TIES." NEW, IMPROVED PLASTIC PLANT TIES
Guaranteed fade-proof.
Small, strong, almost invisible. Economical and easy to use. Packed in bundles of 250 ties for convenient use.

Size	Per carton	Av. weight
4-in.	\$10.00	5 lbs.
8-in.	18.00	10 lbs.
12-in.	27.00	14 lbs.

McHUTCHISON & CO.
695-N Grand Ave. Ridgefield, N. J.

PLASTIC FILM

GER-PAK POLYETHYLENE FILM
SUN-RESISTANT BLACK FOR MULCHING
.0015 MIL.

3 ft. x 500 ft.	\$ 7.45 roll
3 ft. x 1000 ft.	14.90 roll
4 ft. x 1000 ft.	19.90 roll

NATURAL TRANSPARENT ONLY
.002 MIL. ALL ROLLS 200 FT. LONG

4 ft. 2 ins. x 200 ft.	5.55 roll
8 ft. 4 ins. x 200 ft.	11.10 roll
12 ft. x 200 ft.	15.90 roll

NATURAL TRANSPARENT ONLY
.004 MIL. ALL ROLLS 100 FT. LONG

3 ft. x 100 ft.	4.00 roll
4 ft. x 100 ft.	5.30 roll
6 ft. x 100 ft.	7.98 roll
8 ft. x 100 ft.	10.65 roll
14 ft. x 100 ft.	18.60 roll

MINIMUM ORDER .004 mil. 4 rolls up to 8 ft. Write for low prices on quantity orders. Other sizes and mil. weights available up to 40 ft. in natural and black film.

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DAYTON NURSERY & GARDEN SALES
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VIKING CLOTH—Plastic Sealed Burlap.
Let in light. Keep out Water Wind.
In 50-yard rolls 5 ft. wide, \$38.00.
Polyethylene. Clear, Black, Rolla, Sta.
HALF MOON CO., ox B27A, Plainfield, N. J.

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1 1/2 mil., black, in 1000-ft. rolls, 3 ft. wide, \$17.34; 4 ft. wide, \$22.95.
2 mil., natural, in 200-ft. rolls, 4 ft. 2 ins. wide, \$6.80; 8 ft. 4 ins. wide, \$12.75; 12 ft. wide, \$18.36.

4 mil., natural, in 100-ft. rolls, 3 ft. wide, \$5.10; 4 ft. wide, \$6.80; 6 ft. wide, \$9.52; 8 ft. wide, \$12.24; 10 ft. wide, \$15.30; 12 ft. wide, \$18.36; 14 ft. wide, \$21.42; 16 ft. wide, \$24.48; 20 ft. wide, \$29.60; 24 ft. wide, \$36.72; 28 ft. wide, \$42.84; 32 ft. wide, \$48.96; 40 ft. wide, \$61.20.

6 mil. available in widths up to 40 ft.
15 per cent discount on orders over \$24.00.
25 per cent discount on orders over \$60.00.
40 per cent discount on orders over \$250.00 sq. ft.

We pay freight if check is with order.
ROUGH BROS.
4229 Spring Grove Ave. Cincinnati 23, O.

POLYETHYLENE FILM

Natural, transparent, made from DuPont Alathon. The amazing film for greenhouses
3 ft. x 100 ft., .004 mil., \$5.10 roll; 4 ft., \$6.80; 6 ft., \$9.52; 8 ft., \$12.24; 10 ft., \$15.20; 12 ft., \$18.36; 14 ft., \$21.42; 16 ft., \$24.48; 20 ft., \$30.60; 24 ft., \$36.72; 28 ft., \$42.84; 32 ft., \$48.96; 40 ft., \$61.20.

Black for garden mulching.
Kill weeds. Increase yield.
Black, .0015, 3 ft. x 500 ft., \$12.00; 3 ft. x 1000, \$20.00; 4 ft. x 1000 ft., \$24.00.

See discounts below.
15 per cent on orders over \$24.00.
25 per cent on orders over \$60.00.
40 per cent on orders over \$250.00 sq. ft.

We pay freight, check with order.
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Box AN 1165 Youngstown 1, O.

POLYETHYLENE FILM

SAVE MONEY AT THESE LOW PRICES
.0015 mil., black, 3 ft. x 1000 ft. \$12.75
.002 mil., clear, 4 ft. 2 ins. x 200 ft. 4.58
.004 mil., clear, 6 ft. x 100 ft. 6.60
.004 mil., clear, 16 ft. x 100 ft. 17.50
.006 mil., clear, 12 ft. x 100 ft. 19.80
Many other widths available in clear or black.

Save up to one-third. WHY PAY MORE!
Write for complete list of sizes and prices per roll.
SUPERIOR PLASTICS
1421 W. Chicago Ave. Chicago 22, Ill.

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TRANSPARENT AND BLACK
.004 mil., rolls 100 ft. long.

3 ft. x 100 ft.	\$ 3.30 roll
4 ft. x 100 ft.	4.40 roll
6 ft. x 100 ft.	6.67 roll
10 ft. x 100 ft.	10.95 roll
14 ft. x 100 ft.	15.33 roll

Write for low prices on quantity orders. Other sizes and mil. thicknesses available from stock up to 40 ft.

BROADWAY RUBBER CORP.
529 E. Broadway Louisville, Ky.

DUPONT'S WEATHERABLE MYLAR

5 mil., NEW TYPE W-1
(One side exposure.)

42 ins. wide x 100 ft. long roll	\$52.50
48 ins. wide x 100 ft. long roll	60.00
51 ins. wide x 100 ft. long roll	63.75

1000-ft. rolls, same widths, 13 1/2c per sq. ft. **FREIGHT PREPAID, CASH WITH ORDER**

5 mil., TYPE W-2 (two side exposure) also available. Write for prices and information.
ROUGH BROS., INC.
4229 Spring Grove Ave. Cincinnati 23, O.

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can be easily and quickly turned into Cash

by listing it in the
American Nurseryman Classified Ads.

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NEW LOW PRICES
WILSON HIGH IMPACT
POLYSTYRENE PLASTIC POTS
Attractive mottled green colors in utility grade, sold in original cartons only. All prices F.O.B. Dayton, O.

	Per 1000	Wt.
2 -in., round, 1000 case	\$ 10.75	13 lbs.
2 1/2-in., round, 1200 case	11.75	18 lbs.
2 1/2-in., round, 1000 case	14.50	22 lbs.
3 -in., round, 1000 case	18.25	36 lbs.
4 -in., round, 500 case	32.00	30 lbs.
4 -in., round, 300 case	53.00	38 lbs.
6 -in., round, 120 case	110.00	34 lbs.
7 -in., round, 72 case	170.00	30 lbs.
4 -in., round tub, 500 case	32.00	33 lbs.
4 -in., round tub, 120 case	100.00	25 lbs.
2 1/2-in., square, 1000 case	11.75	17 lbs.
2 1/2-in., square, 1000 case	14.75	22 lbs.
3 -in., square, 1000 case	18.25	35 lbs.
4 -in., square, 500 case	33.00	33 lbs.
No. 10 Plants Can, 150 cases	120.00	45 lbs.

Also available in decorator colors. Write for quote on colors. Send fifty cents (50c) for complete set of samples postpaid.
DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.
Phone Baldwin 3-8277

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Selling through the Classified Ads
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NEW HERCULITE SALES MAKER POTS
THE ONLY POT MADE FROM GREEN
POLYETHYLENE COATED FIBER. FEAT-
URES ABRATION HOLES FOR HEALTH-
IER PLANTS.

PRICED PER 1000		No. per F.O.B.	
No.	W. Bottom	Hgt.	ctn. Dayton
55	5-in.	4-in.	200 \$ 50.00
66	6-in.	5-in.	200 57.50
76	7-in.	6-in.	100 62.50
79	7-in.	5½-in.	100 70.00
86	8-in.	7-in.	100 70.00
89	8-in.	6¼-in.	100 80.00
99	9-in.	7-in.	100 100.00
1010	10-in.	8-in.	50 136.00
1212	12-in.	10½-in.	50 246.00

Send \$1.00 for complete set of sample pots,
postpaid.

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DAYTON NURSERY & GARDEN SALES
P. O. Box 763 Dayton 1, O.

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Now we can again "ship same day."
Used by leading growers everywhere.
Guaranteed no breakage.

Per 100 Per 1000	
4-in., round	\$1.00 \$ 9.50
4½-in., square	1.25 10.00
5½-in., square or round	1.50 13.75
6-in., square or round	1.75 16.50
4-in., square or round	3.00 29.00

Please include 50¢ postage on 100 orders.
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Letterheads, 3½x11 ins.; envelopes, 6%
size; 250 of each, \$6.50, postpaid in U.S.A.
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REED MATS

GUARD 'N SHADE

DUTCH-MADE REED MATS

Carefully woven with a generous amount
of reed. Durable and easy to handle. Ideal
for coldframe protection in spring and fall.
AVAILABLE IN 3 SIZES. F.O.B. AT-
LANTIC AND GREAT LAKES PORTS. 6x6-
FT. SIZES AVAILABLE FOR IMMEDIATE
SHIPMENT. WRITE FOR PRICES.

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SPHAGNUM MOSS

WISCONSIN'S FINEST SPHAGNUM

1960 crop, long, clean, heavy fibered, stand-
ard 12x14x4½-in. bales, solid pack, burlap.
1 to 10, \$1.80; 11 to 50, \$1.75; 51 to 100,
\$1.70. F.O.B. Warrens, Wis.

Finest quality milled sphagnum, the ideal
material for seed germination. 2½-bu. bags.
1 to 5, \$2.00; 6 to 10, \$1.90; 11 or more,
\$1.75 per bag. F.O.B. Warrens, Wis.

Satisfaction guaranteed. Prompt shipping
via rail, express or truck. Contact us for spe-
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sphagnum in 2½, 5 or 9 bu. bags. Prices
subject to change.

WARRENS MOSS CO.

Box L Warrens, Wis.
PHONE TOMAH 625

Fresh, clean sphagnum moss, write, or
phone City Point 133 for our low prices on
wire-bound bales in truckloads or carlots.
Tony Jaromin, City Point, Wis.

STAKES

CYPRESS PLANT STAKES

50 pieces to bundle.

1x1-in.—3 ft., pointed	\$3.00 per bundle
1x1-in.—4 ft., pointed	3.50 per bundle
1x1-in.—5 ft., pointed	4.50 per bundle
1x1-in.—6 ft., pointed	5.50 per bundle
1x1-in.—7 ft., pointed	7.00 per bundle

These stakes are made of cypress and red-
wood; are good, strong stakes and will give
long service. "A little better than seems
necessary."

WE SHIP SAME DAY!

YOHO & HOOKER

Youngstown, O.

STAKES, GALVANIZED HARD STEEL
GALVANIZED tree-tying WIRE.
HOSE for guy-wire PADDING.

Prices and samples on request.
SCHUPP SUPPLY CO., WILMETTE, ILL.

Plant Stakes, see large ad under Cane
Stakes. McHutchison & Co., Ridgefield, N. J.

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Descriptive book circulars available on
request.

65 PRACTICAL GARDEN PLANS,
by John Elliott, \$1.00.

These books may be obtained, postpaid, at
the publishers' prices indicated, from

AMERICAN NURSERYMAN

443 S. Dearborn St. Chicago 4, Ill.

Seed Germination, Subject of Talk To Oregon Growers

By Charles H. Potter

Chester Peek, botany instructor,
Oregon State College, Corvallis, dis-
cussed seed physiology and ecology
at a recent growers' educational
meeting held at the Portland Seed
Co., Portland. Dealing first with
seed characteristics and basic func-
tions of seed germination, he showed
a sequence of slides illustrating the
development of the seed in the plant.

Of particular interest to growers
present was Mr. Peek's information
concerning seed dormancy.

Quiescence is one form of dorman-
cy, he said, which is temporary and
is due to external conditions. The
factors of correct moisture, light and
temperature combine to break the
quiescence.

Light, he said, is either helpful
or inhibiting in the germination of
96 per cent of all seeds, and for most
of these, light is required for germi-
nation. The red portion of the spec-
trum is the important part of light
in this stimulation. This, said Mr.
Peek, is probably due to a specific
pigment in the seed which is stimu-
lated by light.


True Dormancy

True dormancy he described as
embryo dormancy, which occurs
when seed is shed from the plant
before the seed is mature. Low-
temperature storage or stratification
is sometimes needed to break true
dormancy. For the best results in
stratification he recommended mix-
ing the seed in peat moss and using
a temperature of 32 to 42 degrees
Fahrenheit for most seeds. The
process takes from one to four
months, depending upon the kind of
seed.

Seed-coat dormancy is due to a
condition of the seed coat which
makes it impervious to water or
oxygen, so that germination is not
possible. Some seeds of this sort, he
said, remain dormant for years, even

PILE UP PROFITS with PREMIER Sphagnum PEAT MOSS

BALES: COMPRESSED



Large Bales
7 cu. ft.

Plastic
Bales
6, 4, 1 ½
¾ cu. ft.

Poly-laminated inside & outside

BAGS: BULK PACKED

Ready To Use



King Size
Bags
free-flowing
• More coverage
• More value
• 6 & 3 cu. ft.

poly-laminated outside with
separate poly bag inside

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PACKAGES**



3 peck 1 peck

Also European Peat Moss
10½, 7½, 6, 4½ cu. ft. compressed bales
Any combination shipped in one carload

Send for prices now
PREMIER PEAT MOSS CORP.
535 Fifth Ave., New York 17, N. Y.

*Twine and
Cordage*

For All Nursery Requirements
GEO. B. CARPENTER & Co.
SINCE 1940
401 N. Ogden Avenue, Chicago 22, Ill.

though conditions of moisture and temperature are ideal. To remedy this he recommended scarification. He named cotoneaster seeds as an example of those which need both scarification and stratification for proper germination.

The fourth kind of dormancy he discussed was that due to germination inhibitors. In this case, dormancy is caused by a chemical in some part of the fruit or seed which inhibits seed germination. The inhibiting materials most frequently found in seeds and fruits are hydrocyanic acid, ammonia, ethylene, various alkaloids and coumarin.

Have Double Action

A strange thing about these inhibitors is the fact that they will stimulate rather than inhibit growth when diluted considerably. These inhibitors, he said, seem to be "rain gauges" which indicate to the seed when the right amount of moisture is at hand for safe germination. He named the snowberry seed as one

that combines three dormancy factors—hard coat, dormant embryo and inhibitors.

The length of time that a seed remains viable varies greatly, according to species. Some must be germinated within a few weeks of ripening, whereas a lotus seed has been found to be viable after 1,000 years.

Concerning storage of seeds, he said the most damaging influences are high temperature and high humidity combined. Although it is a good practice to air-dry seeds and keep them in open storage, it is even better to dehydrate the seeds somewhat and then store them in sealed containers. Better seed storage, he said, would make it possible to use productive areas now devoted to seed production for some other crop.

CITY council rezoning approval was recently granted to Frank M. and Sam O. Nakamura for establishment of a nursery on Baker street, Costa Mesa, Calif.

NOVELTIES FOR 1961

New importations of introductions which will make their appearance in the 1961 catalog of the Wayside Gardens Co., Mentor, O., include some which may have become known to perennial specialists and other nurserymen by their records abroad. Noteworthy among them are:

Vinca minor Miss Jekyll's White, small-leaved and very dwarf, produces a dense carpet of deep green, covered in spring with pure white, starlike flowers. It is not a rampant grower but neat and orderly.

Yucca flaccida Ivory Tower is a stately ornamental plant with excellent foliage. The tall spike, often five or six feet high, bears flowers quite low on the main stem, but instead of facing downward, they grow upright and erect in panicles of bloom.

A selection of new hardy asters (novibelgi) recently imported from England includes Fontaine, with petunia-pink flowers of good size with an unusually small eye, a fine early-

WANTED and FOR SALE ADS

Help and Situation Wanted and For Sale Advertisements.

Display: \$4.50 per inch, each insertion.

Lines: 40¢ line; minimum order \$4.00.

HELP WANTED

NURSERY SUPERINTENDENT

Wanted by one of country's largest and best established mail-order nurseries to supervise growing of general line of nursery stock. Farming about 400 acres. Already have experienced, capable field foreman but need good man to supervise and co-ordinate. Have company-financed major medical insurance, life insurance, retirement program, paid vacations. All replies held in strictest confidence. Write or telephone:

John Knapp

HENRY FIELD

SEED & NURSERY CO.

Phone: No. 1 Shenandoah, Iowa

HELP WANTED

SUPERVISING LANDSCAPE FOREMAN

For Delaware nursery specializing in high-quality landscape work, mostly carriage trade. An unusual opportunity in a young growing business in a high income community. Applicant must take responsibility for execution of all landscape work (including hiring and firing connected with running 4 crews and maintenance of 4 trucks and other related equipment); also prepare bids for some project work. Designing by others. Applicant must be interested in permanent association and must have horticultural background in commercial landscape field including: Good knowledge of ornamental plants, ability to move large trees and experience with execution of bid projects. Attractive salary, paid vacation, A.A.N. insurance and home in rural setting. Apply Box 2708, Wilmington 5, Del.

HELP WANTED

POSITIONS OPENED FOR WHOLESALE REPRESENTATIVE AND OFFICE CO-ORDINATOR

Old established grower-nursery in Monroe, Mich., desires experienced men or those willing to learn. Write or phone at once for interview. Applicants should be willing to relocate in Monroe.

THE MONROE NURSERY CO.
Ilgenfritz Since 1847
Box 665 Phone: 313, CHerry 1-6100
Monroe, Mich.

HELP WANTED

Experienced and successful salesman for one of Connecticut's largest and most progressive landscape and tree expert firms. Unlimited opportunities for the right man. Send photograph, data sheet listing experience, age and references.

Oscar F. Warner
LANDSCAPE FORESTER, INC.
24 E. Aurora St. Waterbury, Conn.

HELP WANTED

Foreman to supervise digging, planting and growing in a well-equipped medium-size wholesale evergreen nursery in southern New York. Must be alert, energetic, conscientious and have had experience or be a horticultural graduate. Good salary, 3-bedroom house. Permanent, chance to share in the profit. State age, experience, education, etc., in first letter. Reply to Box 828, care of American Nurseryman.

WANTED

Sales agency or salesman covering nursery trade, to represent first-class Kentucky nursery and sell quality nursery stock on a commission basis. Write Box 826, care of American Nurseryman.

WANTED

RIGHT MAN FOR THE JOB

Whether you are on the employee or the employer side of the fence, an advertisement on this page can help you. Place your job request or job offer with us. See rates at top of page. No extra charge for use of box number.

HELP WANTED

OUTDOOR NURSERY FOREMAN
Large well-established wholesale nursery located in central New Jersey. Attractive salary, paid vacations and A. A. N. insurance. Applicant must be between 30 and 50 years old, interested in permanent association and must have general horticultural background. Apply Box 126, Holmdel, N. J.

HELP WANTED

NURSERY FOREMAN
Permanent position. Paid vacations. Digging experience and knowledge of general line of plant material necessary. Call or write:
NATIONAL LANDSCAPING CO., INC.
Rt. 2 Palatine, Ill.
Phone: TWinbrook 4-3456

HELP WANTED

A capable nurseryman, sober, ambitious and one not fearing responsibility to replace similar person leaving for his own business. Modern home on premises. Good conditions and many benefits. Salary open. Hoping to hear soon from the man.
JOHN VERMEULEN & SON, INC.
Neshanic Station, N. J.

HELP WANTED

MANAGER
\$10,000 bracket, thoroughly experienced, 35 to 50 years old, self-starter, enthusiastic salesman. Retail nursery.
ROSEDALE'S NURSERIES, INC.
400 W. Huntington Dr.
Monrovia, Calif.

HELP WANTED

LANDSCAPE AND NURSERY SALESMAN
Large, prominent Philadelphia concern has opening, offering outstanding opportunities for man with proven ability. Highly profitable, permanent position. Earnings of \$10,000 and up, plus profit-sharing plan. State full qualifications. Mail in Box 789, care of American Nurseryman.

HELP WANTED

FOREMAN
To supervise digging, planting and growing operations in medium-size wholesale evergreen nursery in Connecticut. State qualifications, age and salary expected. Write Box 808, care of American Nurseryman.

HELP WANTED

Salesmen now calling on garden centers to sell attractive line of redwood products. Send all information on product now handling and territories in first letter. Address Box 824, care of American Nurseryman.

BUSINESS OPPORTUNITY

WORKING OWNER
Large modern garden center in mid-west wishes to expand landscape-nursery section. Experienced and trained landscape nurseryman, with capital to invest in corporation, wanted. Write Box 818, care of American Nurseryman.

BUSINESS OPPORTUNITY

Specializing in nurseries, florists, greenhouses and allied lines. Business or property. Complete, confidential service.
RAY CANNON, Realtor
2521 W. Manchester Inglewood, Calif.

BUSINESS OPPORTUNITIES

FOR THOSE WHO SEEK THEM
If you wish to purchase a going business, offer one for sale, or arrange for a merger or partnership, you can quickly contact interested parties through an advertisement on this page. See rates at top of page. No extra charge for use of box number.

SITUATION WANTED

Horticulturist seeking opportunity in private or commercial landscape nursery.

Experience and education in developing farm and forest land into productive nurseries. Excellent knowledge of native and ornamental plant material of the north-east.

18 years of successful work in developing choice plant material and naturalistic landscapes can be repeated for you. Proof of all past work available on interview.

Write to Box 803, care of American Nurseryman.

SITUATION WANTED

Pruner, grafter, fruit culturist. Now in Italy. Desires employment anywhere in the United States. Sober man, age 32. Write Box 827, care of American Nurseryman.

WANTED

By established sales agency covering eastern and midwestern states. Reputable west coast rose grower desiring distribution in these areas. Must have large variety assortment of common and patents. Write Box 814, care of American Nurseryman.

FOR SALE**SALESYARD AND NURSERY**

Located 15 miles west of Boston, Mass. Approximately 9 acres of land, partially planted to nursery stock. Greenhouse 12x46 ft., heavily stocked. 3-yr.-old, 3-bedroom colonial ranch, 2 full baths, full basement, 2-car garage. Farmall tractor with all attachments. All inventory contracted for spring offering. Write Box 829, care of American Nurseryman.

FOR SALE**NURSERY**

Well-established, fully equipped and well-stocked nursery in Mobile county, Alabama. Excellent land, irrigated, with greenhouse, hotbeds, slat houses, canning yards, barn, office, complete equipment and air-conditioned home. With or without broiler houses, 20,000 capacity, with automatic equipment. Price and terms on inquiry. Write P. O. Box 1109, Mobile, Ala.

FOR SALE

Used complete greenhouses. Used greenhouse materials, glass, pipe, valves, etc. Greenhouses bought for wrecking.

SEABOARD GENERAL SUPPLY CO.
Elizabeth 4-9041 Waverly 6-0404
1080 Magnolia Ave. Elizabeth, N. J.

FOR SALE OR LEASE**No. 1 LOCATION**

Established nursery with adjoining gas station. Storage building, living quarters and office. 450-ft. frontage; 1000 ft. deep. On busy main highway, half mile from Peekskill, N. Y. \$120,000, terms. Write P. O. Box 121, Peekskill, N. Y.

FOR SALE

1½ acres of evergreens consisting of Capitata Yews, Hicks Juniper, Hetzi Juniper, American Arborvitae, Mugho Pine and other miscellaneous stock. Must clear land. Buyers must dig and haul. Give offer.

CHANOSKI NURSERY

R. D. 1 Jeannette, Pa.
Phone: LA 7-9928 after 7 P.M.

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The most modern, largest garden center on south shore of Boston with gift center selling greenhouse to allow for year-round business. Includes 40x100-ft. display store, 60x100-ft. lath house, 20x100-ft. warehouse surrounded with 3 acres of selling area for deciduous stock. Total 14 acres surrounded by towns and cities. Beautiful approach gardens. Limited landscape business by choice, can be diversified for florist, landscape, gift shop, garden supplies, hardware and nursery stock. Price \$100,000; includes inventory or will lease at \$650 a month plus inventory, approximately \$15,000. Address replies to:

NURSERYLAND
North Abington, Mass.

FOR SALE

2¼ acres sandy loam, fully irrigated. Owner's home, 6 other buildings. No overgrown shrubs, all salable, best varieties, for local landscaping. Broad-leaves; conifers; ornamental trees; dwarf fruit trees, bearing age. Thousands of liners. 15 miles from Portland, Ore. Write or call:

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Phone: OX 4-8486

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An old well-established nursery with a very good reputation in the trade. Large wholesale, industrial and private clientele. Located in one of the most industrial sections of the eastern part of New Jersey. A good opportunity for one or more young men. Write Box 793, care of American Nurseryman.

FOR SALE

Well-located and stocked 10-acre retail and wholesale nursery on state road No. 3. 900-sq.-ft. propagating house 6000-sq.-ft. lath house. Truck, tractor and modern home. Come and see this bargain and make us an offer and terms to suit you. Wish to retire and leave the state.
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Hartford City, Ind.

FOR SALE

WALDOR ALL-ALUMINUM GREENHOUSE
16x32 FT.

Approximately 8 years old, in excellent condition. No maintenance required. Includes glass and aluminum framing only. Write to:

THE BUDDIES NURSERY
P. O. Box 14 Birdsboro, Pa.
Phone: JUniper 2-7257

FOR SALE

100 used hotbed sashes, \$2.50 each or \$225 for the 100.

16-in. Planet Junior Tuffy Cultivator, in good condition, \$40.00. 12-in. Howard Rotorator-Bulldog (rotary tiller), \$125. In good condition.

DIRK DE VRIES NURSERY
103 Glen Ave. Midland Park, N. J.
Phone: GI 4-8710—Closed Sundays

FOR SALE—Florist-greenhouses-nursery in ideal location for garden mart. 1100-ft. front on good highway, vicinity of Chester, Pa. 27 acres, 3 small greenhouses, shop, large Pennsylvania stone farmhouse, stone barn. Complete with business, stock and equipment \$42,000. For full particulars write: Mitchell W. Smith, HORTICULTURAL REALTY CO., 36-52 Main St., Flushing 54, N. Y., Phone: FLushing 8-2244.

FOR SALE—Nursery in upper midwest, 3½ acres. Owner's home, garage with storage basement. Ideal location, rapidly expanding business. For quick sale, \$22,000. Write Box 825, care American Nurseryman.

FOR SALE—Businesses may be offered for sale by use of a want ad liner such as this. Cost: 40¢ per line (minimum order \$4.00). Your ad will be seen by more than 9800 American Nurseryman readers.

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(as low as \$1.80 per 1,000 in lots of 20,000)

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available

in

COLOR!

Pure White
Spring Green
Sky Blue
Gay Yellow
Brilliant Orange
Rich Red

(Sizes 3", 4",
5", 6" only)



Better than old-fashioned wooden markers —
and at competitive prices

- Permanent, attractive, lightweight, reusable, economical
- Easily marked with soft lead pencils, rubber stamps or printing
- Standard colors: Spring Green and White — available in 4 styles, 13 sizes . . . up to 15"
- Made by the makers of famous LIFETIME MARKERS — your guarantee of quality

THRIFTEE Markers are a real boon to florists, nurserymen and growers . . . wherever durable, attractive plant markers are required in quantity at a minimum price!

QUANTITY PRICES PER 1,000

Bulk Packed	3" x 7/16"	4" x 5/8"	5" x 5/8"	6" x 5/8"
1,000	\$2.50	\$3.90	\$4.80	\$5.40
5,000	2.20	3.60	4.50	5.10
10,000	2.00	3.30	4.15	4.80
20,000	1.80	3.00	3.80	4.25

All prices F.O.B., Milford, Michigan. Shipping charges prepaid if check accompanies order. Markers may be assorted to earn quantity prices.

Be sure to specify color desired — otherwise, all orders will be filled with Spring Green markers. Write for Thriftee prices on larger quantities.

SAMPLE ORDER (125 assorted markers) \$1.00 prepaid

There's a style and size to suit your needs! WRITE FOR FREE LITERATURE on our complete line of plastic plant markers and our unique, new JIFFY PRINTER for printing markers, quickly and economically.

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Far West: 1864 S. 120th St., Seattle 88, Wash.

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flowering variety; Lassie, with soft pink double flowers in big masses on good stiff stems, and Tudor Rose, bearing large, semidouble flowers of soft lavender pink by the hundreds, strong growing and profuse flowering.

Canna Bangkok is a new variegated-leaved variety from Siam. Flowers are clear yellow and the plant is of medium height. Leaves are soft green with broad center midrib and side laterals pinkish white.

Gypsophila paniculata Pink Star, from Australia, has large, double, pink flowers on wiry stems in profusion. Good for cutting. Flowers from June through September and is about 18 inches tall.

Lavendula Gray Lady is somewhat lighter in color than Hidcote and produces an immense number of flower spikes when well established. Fragrant silvery-gray foliage suggests its use as an edging plant around rose beds.

Acer pseudoplatanus Worlei has golden sycamore foliage of bright yellow from April to July, when it turns pale green.

Cornus kousa chinensis Milky Way is a selection from many variations of the true Chinese dogwood.

Deutzia Pink Pompon has pink flowers in pomponlike clusters in late spring. Said to flower well in light shade. The height is three to four feet.

Clematis Mrs. P. T. James, for which plant patent has been applied, has large, double, blue flowers of pointed petals, in large quantities on well-established plants and is a robust climber.

CANADIAN TREE CHAPTER

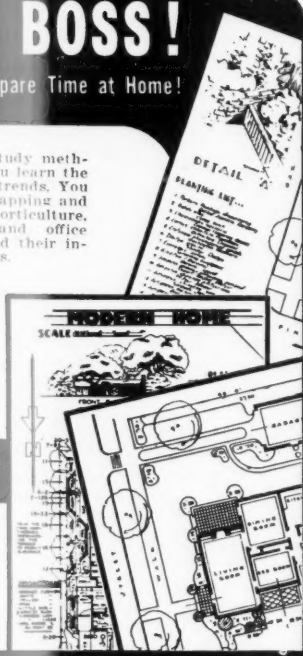
[Continued from page 14]

clearance programs involving the treatment of trees should be performed by personnel trained to do the work in accordance with recognized arboricultural standards.

Brush Control Methods

Canadian telephone and power companies carry out extensive brush control programs, the telephone companies having sprayed a total of 8,300 brush acres in 1960 at a cost of \$200,000. Ontario Hydro uses knapsack-type sprayers, powerful hydraulic sprayers and aircraft, spraying about 40,000 acres a year at an approximate cost of \$35 per acre.

The same area may need spraying three times in 10 years, but growth is normally reduced to the extent that the third spray costs about 50 per cent less than the first, whereas cutting the brush creates sucker



DETORF GARDEN PEAT MOSS



is



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for BONUS BULK

IN WEST GERMAN BOGS, Nature "put the squeeze on" genuine Sphagnum Moss for centuries. Detorf Bricks are tougher, denser, more resilient and better preserved than peat from any other deposits in the world.

DETORF'S MODERN PLANTS actually out-do Nature. Forty-eight Bricks—open-air-dried, shredded and screened—are packed under high compression into each sealed, dust-free, moisture-proof 6 cu. ft. bag.

TEN FULL BUSHELS FLUFF out when the Detorf 6 cu. ft. bag or bale is opened. Detorf goes farther—lasts longer because its double volume absorbs 15 to 30 times its weight in water—breaks down slowly in use.

BONUS PROFITS

for you are assured by Detorf's liberal margins and customer demand.
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J-M TRADING CORP.

4515 S. Western Blvd., Chicago 9, Illinois

growth that raises the cost each time.

When a mixture of susceptible and resistant trees and shrubs is to be cleared from the Hydro right of way, a summer stem foliage spray is used, any time after the leaves are full grown until the first frost, consisting of equal parts of 2,4-D and 2,4,5-T at the rate of eight imperial pints to 150 imperial gallons of water.

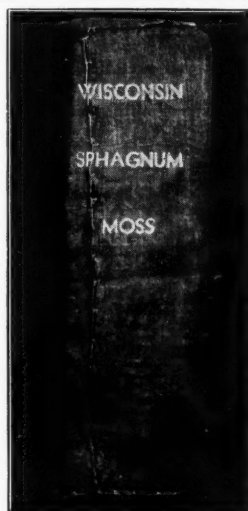
A dormant basal (root-collar) spray (2,4,5-T at the rate of 42 imperial pints to 150 imperial gallons of fuel oil) is used in the dormant season to cover all stems to a height of three feet above the ground, ensuring thorough coverage of the root collar and any exposed roots.

When conifers and deciduous brush must be killed with one application, a mixture of eight imperial pints of 2,4,5-T and 23 pounds sodium TCA in 150 imperial gallons of water is used as a summer stem-foliage spray.

Morgan Arboretum

Dr. W. H. Brittain, curator, Morgan Arboretum, Quebec, outlined the work of the arboretum and described it as a botanical garden of trees. More than 365 acres of native trees grow there in a wide variety of soils.

Many plantings are spaced to



SPHAGNUM MOSS

Large burlap and wire bales and shredded moss for seed germination at Wisconsin's lowest price.

We have been gathering moss for florists and nurserymen for over 65 years.

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An Important "Tool" for the Grower

TRU-CHEK RAIN GAUGE CO.

Accurately measures 1/100th of an inch to 6 ins. of rainfall by university tests. Lifetime plastic with aluminum bracket. Clear, easy-to-read scale. 13 ins. long, has a top opening of 2 1/4 x 2 1/2 ins. \$3.95 post-paid. 30-day moneyback offer.

Discount to Jobbers and Dealers

TRU-CHEK RAIN GAUGE CO.

Albert Lea, Minn.





UNION Plastic Pots in Color Provide...

EXTRA SALES IMPACT!

Union Plastic Pots in Utility colors have been widely accepted by growers for their moderate cost combined with their attractive neutral colors. But there's something to be said, too, for Union's line of eye-catching Custom colors.

Today's consumer preference for color - in cars ...in homes...in clothing - has given color a sales impact that cannot be denied. Perhaps a few of your choice plants potted in carefully chosen colors from Union's Custom Line and offered to some of your more discriminating customers will sell faster than they might if you offered them in Utility pots. It's worth a try!

Sending your plants to market in colored plastic pots - Union's Custom-line Pots - deserves serious consideration! It's less expensive than you think!

UNION PRODUCTS INC., Leominster, Mass.

INCREASE SALES 100%

Don't Keep Your Customers Waiting for information about your stock. These self-selling plastic labels give all the information your customer wants - creating additional sales while you are busy.

We have the largest selection of horticultural subjects on plastic labels anywhere. Available in two types: (1) Over 800 varieties illustrated in full color; (2) over 600 fully descriptive labels with large, readable type.

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ASK FOR FREE SAMPLES AND CATALOG

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Phone OXford 9-0711

No. 3 Container-Marker (picture and holder). Holder is 27 inches high. Prongs at bottom prevent turning in the wind. Use for salesyard display.



show students the complete characteristics and full beauty of form. Any tree that has shown its worth under the conditions of the region, either for pulp and paper, lumber or landscaping, is to be found in the arboretum.

Designed specifically to support a dynamic program of woodlot conservation, the arboretum is a study center dealing with all problems of woodlot management. Various experiments are undertaken to improve the general health and vigor of the sugar-producing trees in the sugarbush and to enhance the flow of sap. Other projects include a wild fruit garden and nut grove and intensive studies of the native white birch.

N. P. Beaudoin, Canadian Department of agriculture, spoke on the future of elm trees in Canada. He outlined the research being carried out on Dutch elm disease and stressed the importance of a DDT spray program carried out each year to increase the build-up of DDT in the elm bark. This program, he is confident, will eventually destroy the beetles, and the beautiful American elm will not be wiped out.

CONCRETE IN GARDENING

A handsome brochure of 16 pages, 8½x11 inches, is being distributed by the Portland Cement Association, entitled "Concrete for Outdoor Living" and reproducing photographs in full color of patios and other examples of outdoor living structures in which concrete plays a part. In none of the illustrations are plants lacking, and in some they make up so much of the picture, at least to the horticulturally minded, that the concrete seems to play an insignificant role. Addressed to homeowners, the booklet refers those interested in projects such as the ones pictured to the services of local contractors or masons, while offering information on concrete fundamentals from the association's office at Chicago.

SIGNS SELL WITH HUMOR

Humor has a useful place in nursery selling, according to David J. Marks, manager of Plantland on the Parkway, Manchester, Conn., who is employing a grin-stimulating gimmick to attract customers to his garden center. A 2½x12-foot sign is suspended from the lath house, and the sales messages are worded to catch the eye and bring a smile.

Phrases such as the following have been used: "Shade Trees - The

BOOKS — FOLDERS — HANGERS for Nurserymen



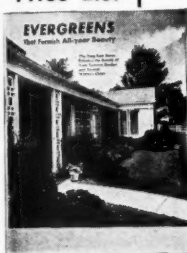
Write for
Quantity
Discounts
and
Price List

4 Popular Folders

Each folder 10 3/4 x 35 in.,
open, printed in full color.

1. SHRUBS,
2. EVERGREENS,
3. SHADE TREES,
4. ROSES

Each **25¢**

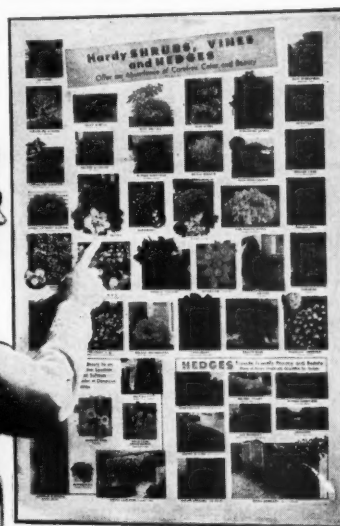


4 Wall Hangers

Each 25 x 38 in.,
printed in full color.
Metal binding top
and bottom, very
substantial.

1. SHRUBS,
2. EVERGREENS,
3. SHADE TREES,
4. ROSES

\$3.00
Each



Cash with Order, Please.

CORRECT PLANTING Methods

32-page pocket size book containing
very complete information for all kinds
of plants, well illustrated, helpful in
preventing claims for dead stock.

Sample
copy
10c

A. B. MORSE CO. Horticultural Printers St. Joseph, Mich.

Thinking Man's Filter," "Time to
Get Growing," "Tree-mendous Sale"
and "We Sell Every Blooming
Thing."

Because of the successful response
to the signs, which are changed fre-
quently, the firm plans continued use
of the idea.

PRUNING HANDBOOK

Garden center operators looking
for a handbook on pruning to offer
customers will find "How To Prune,"
an illustrated manual of 28 pages and
cover, useful for this purpose. The
booklet is offered to retail at 25 cents
by Seymour Smith & Son, Inc., Oak-
ville, Conn., and outlines established
methods of pruning trees and shrubs
and describes some of the company's
tools.

STARTING the Harry Kirgan
Landscape Service, route No. 3, Ash-
ley, Ill., is Harry Kirgan, who has
been doing landscape work for the
past 10 years and is now growing
ornamentals.

STOLEN recently from Weingar-
ten's Green Thumb Nursery, Hous-
ton, Tex., was a safe containing
about \$300 and 5,000 extra premium
stamps.

STRESEN-REUTER

Copper Naphthenate Concentrate

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An Economical MILDEW and DRY ROT
Preventive for WOOD, BURLAP, ROPE

5-gal. cans
30-gal. drums
55-gal. drums

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ELECTRIC HEDGE TRIMMERS

Discontinued Stock

For Quick Sale

10 No. 512
Electrimmers
in original
cartons.



12-in.
cutter bar.
Weight,
6 lbs. each

Sale Price — 10 — **\$25.00** each for lot.

TERMS: CASH — Freight allowed in U.S.A.

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Send for a sample set of Menne-Pots and
Menne Peat Pots today . . . enclose \$1.50

MENNE-POTS
NORTH TONAWANDA, N. Y. NX 3-4444

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How would you play this hand?

Odds are 50-50 you're high hand before the draw. Open, or if you're to left of opener, raise. Don't stay on less, though. Queens or under most times are drawing against a better hand.

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Two new Ford Tractors built for half-yard loading, for 10 ft. or 12 ft. digging!

New 4000 Series Industrial Tractor for work demanding up to 42 drawbar horsepower; new 2000 Series for work requiring up to 32 drawbar horsepower.

Gasoline or diesel, choice of transmissions, job-matched with dozens of front, side and rear attachments.

Get details from your Ford Tractor Dealer, or write:

Tractor and Implement Division
Ford Motor Company
Birmingham, Michigan



ABSTRACTS OF RECENT RESEARCH

PHOTOPERIODISM IN WOODY PLANTS

The annals of the French National Horticultural Society for 1958, which were published in 1959, contain an article on photoperiodic responses of 41 species of woody plants by J. P. Nitsch, formerly of Cornell University, Ithaca, N. Y., and L. Mowogyi. The plants represented 33 genera and were grown in pots in a greenhouse with day lengths of 10, 14, 18 and 24 hours. The first eight and a half hours of illumination was natural daylight, but the remainder was artificial at approximately 200 luxes.

A further treatment consisted of eight and a half hours of daylight, followed immediately by one and a half hours of artificial light, with the 14-hour dark period broken in the middle by half an hour of light from either white incandescent lamps or white, red or blue fluorescent lamps.

In the majority of species, a 10-hour day induced dormancy abruptly, but in *Cercidiphyllum japonicum*, *rhododendron* and *Taxus cuspidata*, while dormancy was induced, it appeared gradually.

Species which resisted dormancy included *Buxus sempervirens*, *Ceanothus cyaneus*, *Citrus sinensis*, *Cotoneaster horizontalis*, *Eucalyptus ficifolia*, *Fuchsia boliviana* and *Taxodium distichum*. *Malus pumila* actually grew faster in a 10-hour day than in a 14-hour day.

Species in which 14 hours' illumination was too short to maintain growth were *Acer ginnala*, *Betula papyrifera*, *Cercis canadensis*, *picea*, *Pinus strobus* and *Viburnum opulus*. *Berberis thunbergii* showed no growth even in an 18-hour photoperiod.

Interruption of the 14-hour night period prevented dormancy in most cases, but actually retarded growth in *Juniperus communis*. The stimulating effect of the interruption was generally greatest when the red fluorescent lamps were used; the blue tubes were almost completely ineffective.

Vernalized plants of *Abelia grandiflora* produced flower buds in seven weeks with a 24-hour day, eight weeks with an 18-hour day, and nine weeks with a 14-hour day. The 10-hour day inhibited flowering, but if the dark was interrupted, the inhibition vanished unless the blue lamps were used. When red lamps were

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UNEXCELLED FOR
CONTAINER FEEDING

The result of over 70,000 soil tests made by the
Robert B. Peters Co. over the past 14 years.

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DELIVERED PRICE
IN 300 LB. LOTS
LESS THAN 300 LBS.
F.O.B. ALLENTOWN
ADD 3¢ PER POUND
WEST OF THE MISSISSIPPI

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BEGINNING IN THE NURSERY BUSINESS

By John J. Pinney

Articles from the American Nurseryman:
Retail salesyards, landscape nurseries,
garden centers, mail-order nurseries,
agency nurseries, container stock, financing
and keeping records. 64 p. (1958)

AMERICAN NURSERYMAN

343 S. Dearborn St. Chicago 4, ILL.

used for the interruption, flowers appeared in 11 weeks, 13 weeks if white fluorescent lamps were used and 18 weeks with an incandescent interruption.

OAK WILT ON APPLE

In 1957, George J. Bart, of the Ohio agricultural experiment station, Wooster, reported that Jonathan and Delicious apples were susceptible to the oak wilt fungus, *Ceratocystis fagacearum*. Eight additional apple varieties were tested in 1958, using 30-year-old trees. These were inoculated by placing inoculum containing conidia of the fungus into each of four equally placed chisel cuts made around the trunk about one foot from the ground. The following varieties were inoculated June 30: McIntosh, Rome, Baldwin, Delicious, Stayman, Jonathan, Golden Delicious, York Imperial, Cortland and Grimes Golden.

Wilt symptoms appeared as early as July 16 on Baldwin and Jonathan trees. On five other varieties, wilt was apparent seven days later. All varieties had severe wilt by July 28 except Cortland and Grimes Golden, which remained wilt-free throughout the summer. Discoloration of xylem and wilting generally occurred first in the lower portion of the tree and progressed upward. In infected red oaks, symptoms usually appear first in the terminal parts of the tree and progress downward. The pathogen was recovered from discolored xylem of all wilted trees. In the case of Cortland and Grimes Golden, the xylem was discolored only a short distance from the point of inoculation; the pathogen was recovered sparingly from Cortland and never from Grimes Golden. These two apple varieties appear to be highly resistant to *C. fagacearum*. Since no varieties or species of oak are known to be resistant to this pathogen, apple may be useful as a research tool for further investigations of the nature of resistance to the oak wilt disease. (Phytopathology volume 50, No. 2.)

D.

NEW HOME FOR LUMITE

The Lumite division of Chicopee Mfg. Corp., Cornelia, Ga., has moved its shade cloth fabrication and finishing operations into new quarters. The announcement was made by Max J. Green, shade cloth manager. The new facilities are four times larger than the previous ones at Baldwin, Ga. They are located close to the company's manufacturing plant at Cornelia.



In just one operation...

New Lindig 4-in-1 Economy Feeds, Shreds, Screens and Loads

Yes, now you can feed, shred, screen and load from 25 to 60 cubic yards an hour, in just one easy operation. The new LINDIG 4-in-1 ECONOMY Soil Shredders, Models L-25, L-40 or L-60, are now available with Rotary Screener Attachment.

Lindig Shredders are designed to meet your large capacity requirements for operation with front-end bucket loaders. Engineered for long, hard service, these new Lindig Soil Shredders load materials directly into trucks, bins, trailers, or stockpiles.

Nurserymen, landscapers and many other firms who process soil have increased soil shredding production, blending, and aerating needs with Models L-25, L-40, or L-60. Wet or dry, all types of materials are thor-

oughly and uniformly processed. Features include:

- Patented Lindig Dual Shredding Assembly with tough alloy steel hammers. Special design allows large, foreign objects to by-pass the rotor without damage.
- Rotary Screener Attachment which mounts directly on the loading conveyor and is driven by the shredder power unit, through a chain drive and right-angle gear speed reducer.
- Optional gas or electric power; operating rotor speed is 1,100 R.P.M.
- Tow bar hitch with caster and dual pneumatic tires for easy maneuvering.

Lindig offers you the most complete line of equipment for hand or power feed, with capacities ranging from 3 cu. yds. up to 200 cu. yds. hourly. Sold and serviced by a nationwide dealer organization.



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Free literature and the name of your nearest Lindig dealer is yours on request. Write today for complete details and specifications.



Introducing

"MISTER 100"

Here we believe is the finest mist propagation nozzle ever developed. Wide coverage. Flat plane of mist. Also has many other applications.

Nozzle has 5/16-24 thread. Spaced 3 feet apart in drilled and tapped holes in 3/4-in., 1-in. or larger pipe, depending on length of line.

Features individual strainer, wrap-around wire baffle, easily removable for cleaning or replacement after long operation.

AND ITS PRICED RIGHT

Each	Each
In lots of less than 100.....\$1.00	In lots of 500.....\$0.65
In lots of 100......75	In lots of 1000......60
In lots of 250......70	In lots of 2000 or more......55
SAMPLE, POSTPAID, \$1.00. ITS PERFORMANCE, QUALITY AND DESIGN SPEAK FOR IT.	
One-minute or 10-minute timers for seconds or minutes operation.....\$29.95 each	
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Opening of Seaway Provides Problems In Pest Control

Reported by D. H. VanderVeen

Michigan Association of Nurserymen members gathered at Grand Rapids for the group's recent convention (see American Nurseryman, February 15, for general report) learned that the opening of the St. Lawrence seaway was not such a boon to United States agriculture as it was to United States commerce. The great increase in pest control problems caused by seaway traffic was told by Cy Boyer, head of the division of plant industry of the Michigan department of agriculture in an address entitled "Problems of the St. Lawrence."

Since the opening of the St. Lawrence seaway this country no longer has a 1,000 to 2,000-mile buffer strip between ocean ports and the agricultural heartland. More than 1,000 ships from 43 countries docked at ports along the St. Lawrence seaway in 1960, he pointed out.

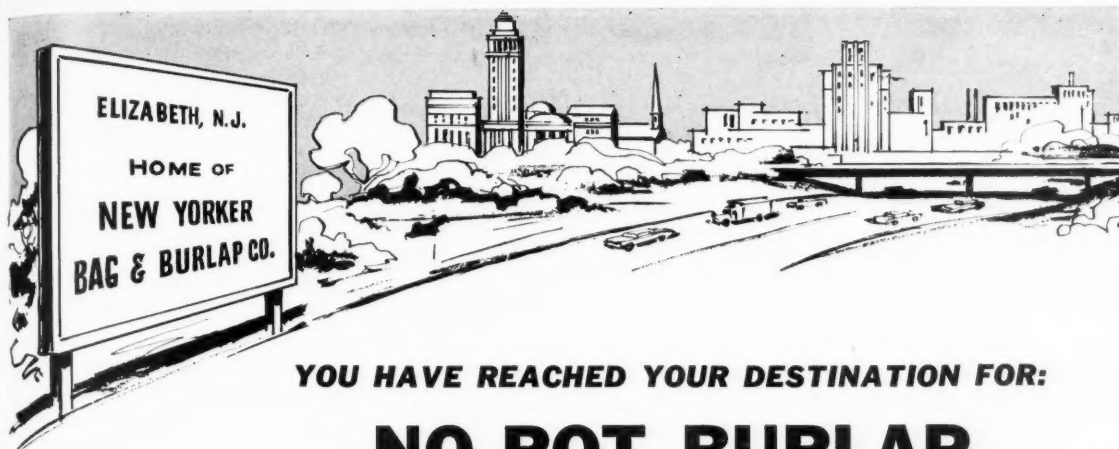
The Great Lakes-St. Lawrence seaway is a highly significant factor in the economic growth of the middle west, and it has been repeatedly emphasized that the department has expressed concern over the importation of new pests via the seaway, and it should not be considered derogatory, he emphasized.

The seaway provides access to the American heartland for 90 per cent of the world's ocean-going vessels. This directly exposes a 13-state area which produces 44 per cent of the nation's cash crop income to the further invasion by foreign plant and animal pests inadvertently carried on or in cargo, ships stores, passenger baggage and in the vessels themselves.

Additional pest risk is involved in the disposal of ships' garbage into the waterway, which is bordered by some 130,000 farms which are located on the 8,050 miles of shore line bordering the states, of which Michigan has nearly 3,000 miles. A plant pest invader was actually stopped every 17 minutes at the ports of entry during 1960.

Travelers Bring Most

Mr. Boyer stated that through years of experience it has been found that foreign plant pests are more likely to be brought into the state



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and country by travelers than by any other means. Last year the number of persons entering from foreign countries into the United States just about equaled this country's total population. Records reveal, he pointed out, that nearly one third of these travelers came from some part of Canada into the Great Lakes states.

Since World War II, air traffic has increased 600 per cent, ocean traffic more than 100 per cent and vehicle traffic some 540 per cent. Seaports are not all the problems faced by plant-protection agencies, he asserted. There are the aircraft, the mails, parcel post and land vehicles, such as trains, trucks and cars, which greatly influence our pest risk.

To effect control of pest introduction by garbage it is required to be held on vessels unless approved incineration facilities are available in the port and properly covered receptacles and dock haulage are provided. More than 315 tons of garbage were brought into the Great Lakes during a 3-month period in 1960.

During the past year khapra beetle, a storage pest of plant and animal products, was discovered on six boats sailing in the Great Lakes; golden nematode of potatoes and

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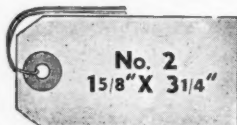
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tomatoes; the white garden snail; a species of rust on beans and lentils, a disease which destroyed 95 per cent of the Chilean lentil crop in 1958, and the European cherry fruit fly, which is capable of destroying entire crops of cherries, were all discovered on ships sailing the St. Lawrence seaway.

The department of plant industries is not satisfied with the job it is doing and is attempting to devise new and better ways of obtaining public co-operation in observing quarantine restrictions. At the same time it requires additional staff and moneys if it is to be successful in safeguarding the state, he concluded.

NEW JERSEY CONFERENCE

[Continued from page 13]

becomes an integral part of the design. The sweeping lawn panel can lead the eye in the landscape.

(3) It forms the surfacing of part or all of the circulation system of the garden. Turf paths are widely used in areas where traffic is not too heavy.

(4) It offers a good surface for relaxation, recreation and sports. Turf is sound, yet soft or resilient.

(5) It gives a change of color and/or texture in the landscape picture.

(6) It is the base color for accenting of other colors in the landscape.

(7) It is useful as the paving material for a terrace area for outdoor living.

(8) It forms the integral base for night-lighted garden scenes.

(9) It acts as an air conditioner in the landscape, because of its direct effect on air temperature close to the ground. Mr. DeBoer noted research showing that turf can reduce air and ground temperature many degrees.

The lecture was concluded with a summary of the fine uses of turf in formal, informal and modern landscapes; on factory sites; municipal properties, and institutional areas; and in parks and any landscape picture, large or small.

Varied Grass Types

The next speaker was Dr. Ralph Engel, head of the turf management program at Rutgers, speaking on the different grasses for lawns. Dr. Engel noted that turf grass management practices have changed drastically in the past 15 years and will change even more in the next 10 years.

First, the so-called warm-season grasses were discussed. Bermuda U-3 is a good summer grass. It is planted vegetatively in late May or June. It

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has a great tolerance to heat, drought and close cutting. It needs full sun, is a fast grower and can be grown on infertile soil if nitrogen is applied. Its disadvantages are that it is basically a weedy plant and difficult to control when it gets into areas where it is not wanted and it is brown in color from mid-fall to late May—seven months of the year. This condition would vary with latitude. It is generally considered undesirable for the typical New Jersey lawn, but may be the answer for summer homes and sandy soils.

Zoysia

The second warm-season grass discussed was zoysia, Meyers 252. The texture and color is much like that of Merion bluegrass. Although zoysia is commonly sold through much of the growing season, Dr. Engel said that it should be planted in May or June; otherwise one should not plant zoysia. It makes a good summer turf, being tough and heat and drought-tolerant, and will take slight shading, although it grows better in full sun. It is not weedy and will tolerate infertile soil with low nitrogen.

Disadvantages of zoysia are that it is brown for six months of the year in New Jersey and it is a slow grower and therefore slow to cover. The fact that it is slow to cover raises the problem of competition with other grasses during establishment. Dr. Engel said that this competition problem can be critical. Zoysia is good for summer lawns and is perhaps the ideal grass for areas surrounding swimming pools.

Concerning cool-season grasses, Dr. Engel said bent grass is excellent for the show lawn. It can form a neat, high-quality turf, but needs considerable care. It is intolerant of heat and drought and should not be grown where dry periods exist, unless irrigation is possible. It has many disease problems. It should be mowed to $\frac{3}{4}$ -inch height and should not be in high-cut lawns. It is not recommended in any typical lawn mix.

Kentucky bluegrass was said to be the most useful lawn grass if conditions of full sun and fertile soil exist. It is best maintained if kept two to two and one-half inches high. The Merion bluegrass is the best all-around grass available. It is more tolerant of close mowing and heat and is more resistant to leaf-spot. Both of the bluegrasses are slow to start from seeds.

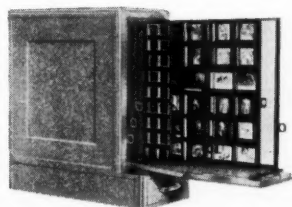
The red fescue type is represented by several selections, Chewings, Illahee, Penn Lawn and others. The fescues also need a high-cut mainte-



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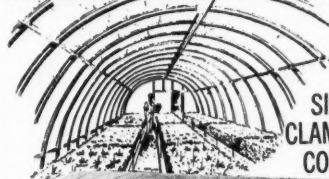
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nance program. They will tolerate infertile and dry soil. They are damaged by diseases, and this susceptibility is increased by too much fertilizer or water. The color matches Kentucky bluegrass, although the texture does not. Fescue should make up about 25 per cent of all seed mixtures. It starts quickly from seeds. In shady areas, a higher proportion should be used.

Perennial rye grass is actually temporary in behavior. It is intolerant of heat and drought, although it blends well with Kentucky bluegrass and red fescue. It responds well to nitrogen feeding, but will thin badly in hot weather. It has only limited use in mixtures.

Dr. Engel then discussed some of the other temporary grasses and concluded with slides showing the appearance of various grasses at different seasons.

Preparation for Seeding

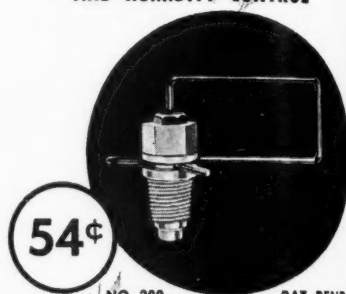
After the lunch recess, Dr. Henry Indyk, extension specialist in turf, talked about "Preparation for Turf Grass Seeding." A good lawn begins with a good foundation—the same as any other construction. It is well to think of lawn building as a construction operation. If the foundation of a building is improperly constructed, it is almost impossible to correct it after the building has been erected. The same is true for lawns—once the lawn is planted, it is difficult to alter the conditions of the soil. One must understand the basic soil requirements.

Dr. Indyk warned against following a routine when building lawns. Every lawn presents an individual situation, and the contractor must alter his technique to fit the conditions. Soil conditions needed for good growth were given and the following steps in preparing a suitable seedbed for a lawn were outlined.

- (1) Strip topsoil and stockpile it before construction starts.
- (2) After construction is completed, remove excess subsoil and correct compaction and subsurface drainage problems.
- (3) Establish proper rough grade to assure good surface drainage. Special thought should be given to having the grade pleasant in appearance. Avoid drainage toward the house, avoid steep terraces and, if necessary, use ground cover or a retaining wall to correct problem areas.
- (4) Remove all trash from the surface. This can prevent many future problems, such as fairy-ring spot, which comes with decaying wood.
- (5) Return the topsoil to a depth

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of at least four inches, preferably six inches. Topsoil is not necessary for a good lawn; some so-called topsoil is worse than much subsoil and may bring in weeds and be costly, while being relatively infertile.

(6) Apply lime. It was noted that many summer lawn problems can be traced to improper pH.

(7) Apply fertilizer. Chemical formulas of 5-10-5 or 5-10-10 are generally used. The rate should depend on a soil test, but the most important point is that all but about five pounds per thousand square feet should be incorporated in the soil and the five pounds per thousand square feet should be applied at time of seeding. It is of no advantage to use organics for this purpose.

(8) Add organic matter to improve soil condition. Peat moss is usually best and the most economical in the final analysis of what is achieved.

(9) Incorporate all of these materials into the soil to a depth of six to eight inches. This is extremely important to the formation of good roots and subsequent drought-resistance. This mixing is usually done with a rotary hoe or tiller of some sort.

(10) Level and firm the soil. This is usually done first with machinery and followed by hand raking. Firm by rolling to attain better contact between soil particles and better moisture conditions for germination. The seedbed should be firm enough to hold an average person without being depressed.

Seed Application

Dr. Engel continued the discussion on "Seeding Procedures." First of all, work at a favorable season in the particular region, he said. Be careful not to get an overdose of fertilizer on the surface at the time of seeding. Five to 10 pounds per thousand square feet is an absolute maximum, and levels above this can damage the grass as it germinates.

The split-application technique for seeding is a must for good seed distribution. This is often omitted to save time and money, but more is lost because of the necessary patch-up work due to skips. A few of the new machines are highly accurate and reliable and can by-pass the split-application technique.

Do not apply too much seed. Four to five pounds per thousand square feet is adequate for most seeds. Overcrowding of seedlings results in shallow rooting, shading and competition, causing stunted plants, more susceptible to disease. Dr. Engel advised spending more time, effort and

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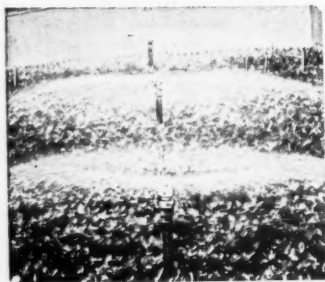
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material on fertilizer and the seedbed, rather than on excessive quantities of seed. The common methods of distributing seeds were discussed.

Covering Pointers

There is no set recommendation on covering the seeds after distribution. Little covering is necessary on a good textured seedbed. The roller-packer machine covers the seeds while applying them. The commonest and most effective way to cover seeds is to go over the surface lightly with lightweight seeding rakes. Rolling is not necessary if the seedbed has been properly prepared.

Mulching of the seeded area can be important. The mulch helps accomplish the following: Insulates against heat and subsequent loss of moisture, reduces weed crop in spring seedlings and prevents erosion of the soil surface in heavy rains.

The grass hay types of mulch are commonest and should be spread as thinly and evenly as possible. Mulches of grass types should be anchored in most cases. R.C. asphalt is commonly used. Some new fabric materials look promising, and a new rubberized material which is sprayed on may be of great value.

Dr. Engel did not advocate watering the newly seeded turf in most instances in New Jersey. It is difficult and often impractical, and if the seedbed is properly prepared, properly seeded and mulched, seeds should germinate well with natural rainfall. He noted that there are exceptions.

As Growth Starts

Once the lawn has begun to grow, its care is important. Traffic should be avoided, unless the ground is firm and dry. New lawns should be mowed before grass gets too tall, to allow light to penetrate for germination of other seeds and to lessen the problem of clipping removal. It is Dr. Engel's opinion that initial maintenance should be handled by the seeding contractor and should be part of his program and charged for accordingly. One must have control of the situation if a guarantee is to be given.

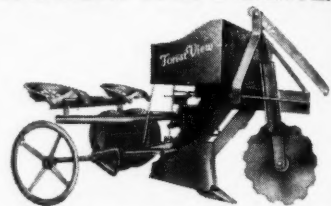
Fertilizing of the newly seeded turf is a touchy matter. If the seedbed had been properly prepared and the fertilizer incorporated into the soil, there should be little need for additional fertilizer in the early stages of growth. After a question period, the meeting was adjourned until the following day.

Friday, March 3, was again marked by fine weather and another good turnout. Dr. Indyk started ac-



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tivity with a discussion of "Turf Grass Weed Identification and Management Related to Control." The weeds which are most troublesome to lawns are those which have low growing points (close to the ground). Those weeds with high growing points have them cut off as soon as they attain a level above the mowing height and are thus eliminated. Poor growing conditions for the lawn benefits the weeds. The poor lawn is the cause of weeds, not the result of weed problems.

Management Practices

Management practices which are of importance to the weed problem were outlined as follows:

(1) Choose grasses which are adaptable to the conditions.

(2) Plant the lawn at a proper season so as to assure good grass growth.

(3) Lime adequately to establish good pH.

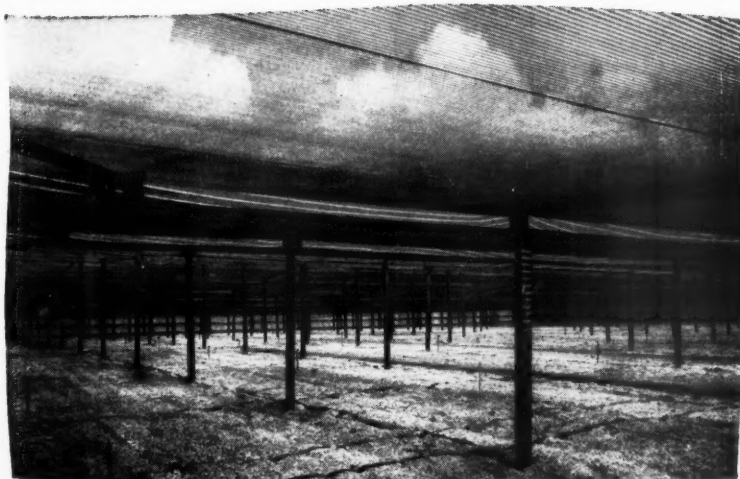
(4) A good fertilizer program is a must in growing a dense-type turf. For a bluegrass lawn, 10 pounds of 10-6-4 fertilizer per thousand square feet in spring and fall is a minimum. The full application is particularly important. Merion bluegrass needs more feeding. Avoid midsummer applications, as this feeds the weeds which are active, particularly the crab grass.

(5) Good mowing practices encourage grass growth and usually discourage weed growth. A low cut is the best for crab grass, and two to two and one-half inches is best for bluegrass. Do not allow the grass to grow too tall between cuttings, and do not remove more than one third of the total height of the plant. The clippings should not be removed if the lawn is mowed frequently; they add shade and prevent weed germination. If the clippings remain on top of the grass more than 24 hours, they should be removed.

(6) Sprinkling or watering habits are critical. Light sprinklings aid crab grass. Water only when needed. Blue-green color indicates need of water, as does the so-called footprint test. A good rule of thumb is to water once a week to a depth of six to eight inches.

(7) Make repairs to turf as soon as possible, to avoid weeds' taking over in the damaged areas.

The turf specialist then showed illustrations of approximately 25 lawn weeds and discussed them briefly. He concluded by recommending two books: "Weeds of the Northeast," by C. E. Phillips, agronomy department, University of Delaware, Newark (75 cents), and



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"Weeds of the North Central States," published by the University of Illinois, Urbana.

Herbicides

Dr. Donald A. Schallock, extension specialist in farm crops and weed control chemicals, spoke on the "Use of Herbicides." It was agreed that chemicals are an aid to good lawn management and not a substitute for it. Dr. Schallock then discussed many weed problems, both in the lawn and in other areas. His comments will be published in a later issue of this magazine.

Dr. Engel took the platform at this time to present a report on pre-emergence crab grass control. This report will appear in a later issue.

The morning program was concluded with a discussion of "Insect Control on Lawns," by Dr. L. G. Merrill, extension specialist in entomology at Rutgers. Dr. Merrill showed slides of lawns damaged by common insects, chinch bugs, Japanese beetle grubs, the sod webworm and others. He mentioned a few controls and referred to the many available publications dealing with insect control.

An interesting point was brought out in this discussion. Many people wonder why new recommendations for insect control are made when the old chemicals will still do the job. Grub-proofing was mentioned as an example. Lead arsenate used to be applied, but much was needed, it was expensive and toxic accumulations were often built up in the soil. DDT took its place, but it has been found that this material decomposes rather rapidly in the soil and is 10 times less effective in killing the insects. Chlordane is now being recommended; it seems to be effective for about four years and may be good for longer periods under certain conditions.

Chlordane for Grub-Proofing

Some growers may worry about treating for grubs with Chlordane at the time of seeding, because of its pre-emergence use. The dosage for grub-proofing is far below that used for weed control, so there is little chance for damage. Dr. Merrill concluded by noting that chemical breakdown and effectiveness in killing are often related to soil temperature. These materials do not leach readily, although some do volatilize and move somewhat.

After lunch, Dr. Engel made his concluding appearance to discuss the maintenance of utility and show lawns. Since many of the areas of importance were covered under

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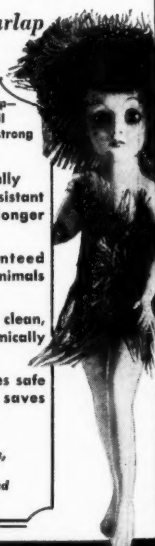
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other topics, this discussion served as a summary of advisable practices.

The program was completed with a talk by Dr. Spencer Davis, extension specialist in pathology, on "Diseases of Turf and Their Control." Dr. Davis agreed with Dr. Engel that a program for chemical control of diseases is impractical for most lawns and is usually unnecessary. There may be some need for it in the "show lawn." He showed some slides of the common diseases, such as fairy-ring spot, dollar spot, scorch and snow mold, and noted that a good maintenance program will do as much to avoid troubles as anything else. Damaged areas should be repaired as soon as possible.

A question period followed. Then, after a few words by Dr. William E. Snyder, head of the ornamental horticulture section and director of the conference, the meeting ended.

FOREST TREE NURSERIES

Those engaged in the production of seedling stock of that type will be interested in the directory of forest tree nurseries in the United States for 1960, published in a 42-page pamphlet by the forest service of the United States Department of Agriculture, giving the location and ownership, as well as production in the fiscal year 1960, private and public, according to state. Nurseries that shipped trees in 1960 included 15 federal, 108 state, 15 other public, 34 industrial and 80 commercial. Total output of seedlings was a little less than 2 billion, of which two thirds were produced by state nurseries.

At the same time the forest service reports figures on forest and wind barrier plantings in the country in 1960, in a separate pamphlet of 16 pages.

G. L. F. GARDEN STORE

The Grange League Federation Exchange, Inc., opened a branch store at the Mid-Island shopping plaza, Hicksville, L. I., N. Y., March 9. The main building contains 12,000 square feet; the outside area, 10,000 square feet, and a greenhouse for nursery stock, 2,000 square feet. It will supply home gardeners' needs and house a pet shop, gift department and food specialties department.

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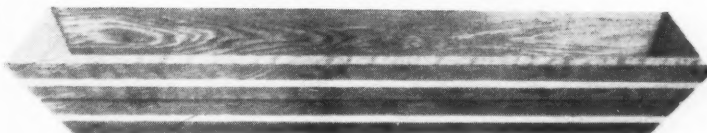
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NEW BULLETINS

LIGHT POTTING SOIL

Because both nurserymen and florists seek lighter growing media for pot plants and container stock, to offset increasing costs of production and transportation, A. F. DeWerth and R. E. Odom, of the department of floriculture at Texas A. & M. College, conducted trials of various mixtures which might be used for this purpose. The results were recently published in the experiment station bulletin MP-420, "A Standard Lightweight Growing Medium for Horticultural Specialty Crops."

For Texas conditions they recommended a mixture of one part each by volume of horticultural perlite and sphagnum peat moss, which is reported to be 25 to 30 per cent lighter in weight than potting soils in common use.

The advantages of these materials are that they are available in uniform grade at reasonable cost, with general chemical uniformity. Many kinds of plants were included in the trials, and three different mixtures of fertilizer materials were employed, for different types of plants. A periodic feeding with a soluble complete fertilizer was scheduled, with an occasional application of chelated iron. The combination of peat and perlite, with fertilizer amendments, is especially useful in Texas soils where problems of salinity are common, as the medium leaches readily.

In other areas, different types of soil would make such a lightweight growing medium of different application, but a grower studying the problem and seeking a lightweight medium for his pot plants or container stock would find the discussions in the bulletin helpful.

MALLING ROOTSTOCKS

Data concerning more than a score of aspects of the use of Malling apple rootstocks in America are given in a historical review of the subject in circular bulletin No. 226 of the Michigan State University agricultural experiment station, East Lansing. In this publication, authors Donald Zeiger and H. B. Tukey have made a timely survey, in view of the current high interest in dwarfing rootstocks, and have provided a reference work that fills a gap and should hold interest for any nurseryman selling fruit stock.

While not all debated points about

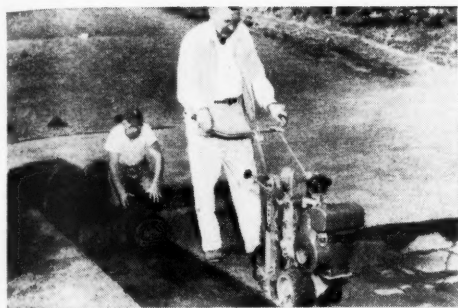
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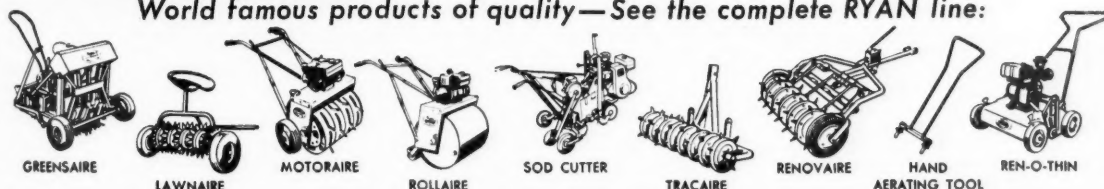
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the E. M. stocks are settled in the literature cited, there are some clear-cut findings. Also of interest are the notes on the early attention given dwarfing rootstocks in America, an attention dating back 150 years. The extracts used by the authors were from 187 original articles, listed, with sources, at the end of the 76-page bulletin.

TREE AND SHRUB INSECTS

Especially useful for its illustrations, some in full color for pest identification, a 32-page bulletin, "Controlling Insects of Ornamental Shrubs and Trees," by Wallace C. Harding, Jr., and Warren T. Johnson, of the department of entomology, has been issued by the University of Maryland extension service as bulletin 168. A short preliminary section treats general insect pests, while three fourths of the bulletin is concerned with the insects that affect specific plants, according to an alphabetical list. The final section is on insecticides and their application.

For the benefit of homeowners and distribution by county agents, the Maryland extension service has prepared booklets of a few pages on growing azaleas, fertilizing ornamental trees and shrubs, lawn care, rose culture and house plants, most



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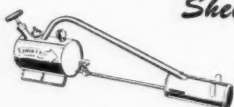
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of them written by Conrad B. Link, of the department of horticulture. Leaflets on landscape planting for the small property and such topics are also distributed, by Carl N. Johnson, extension landscape specialist.

TURF GRUB CONTROL

Grubs of the Japanese beetle, the northern masked chafer and various species of June beetles are the three types that cause the most damage to turf in Ohio, and tests to find effective control measures were conducted by the Ohio agricultural experiment station, Wooster, from 1945 to 1957. The results of these tests are reported by Joseph B. Polivka in the station's research bulletin 829, the Biology and Control of Turf Grubs.

Tables appearing through the 32-page booklet detail the data collected on a wide range of insecticides, indicating the particular effectiveness of DDT, Chlordane, heptachlor and other chlorinated hydrocarbons in grub control. Life cycles of the two beetles and the European chafer are described and illustrated with charts.

HOW TO START AN ARBORETUM

In many communities of the country, from time to time, projects are ventured or suggested to establish an arboretum, either on a small scale or large. Often nurserymen are called upon for advice. Much pertinent information is made available in the December 30, 1960, issue of *Arnoldia*, the bulletin of the Arnold Arboretum, Harvard University. This devotes 16 pages to advice "How To Establish an Arboretum or Botanical Garden," by Dr. Donald Wyman.

CHICAGO SHOW

[Continued from page 7]

providing their mature framing and shading effects.

The president's award of the Chicago Horticultural Society went to the Garden Club of America, the exhibit marking the club's first participation in a show outside New York city. In the 18th century walled garden created by regional member clubs, the four seasons were depicted in embroidery plantings of low-growing hedge and flowering materials.

Patio Planters

Focal point of the exhibit entered by Charles Klehm & Son Nursery, Arlington Heights, Ill., was a deck



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patio of dark gray planking at the right of a broad lawn. Planters flanking the deck and extending across the back of the lawn area used the same gray planking against lighter-colored panels for a strong horizontal effect.

Peonies, the firm's specialty, in red and pink shades edged the deck on three sides and were faced with white azaleas. An Echtermeyer crab apple underplanted with Sargent juniper accented a front corner of the deck in one of the flanking planters. Taller-growing flowering shrubs provided increasing height toward the rear of the patio, where flowering crab apples and evergreens formed the background.

Against upright junipers and pines, a planting of Magnolia soulangiana, flowering quince, Prunus triloba and orange and yellow Azalea mollis gave color to the long planter extending to the left of the patio. White tree peonies and bleeding heart were featured in a large stone planter that edged the lawn on the left.

The Japanese garden designed by Hoschl Landscape Co., Northbrook, Ill., was dominated by two 15-foot Tanyosho pines, which had been moved, with 5-foot balls, from the D. Hill Nursery Co., Dundee, Ill., for the show. At one end of the displays, a tall rock mass was featured, from which water fell to a pool below. Other pine species, including waterianas; thread-leaved maples; rhododendrons; umbrella plants; dwarf juniper, and Baltic ivy were among the materials combined with raked sand and marble chip panels for Oriental effect. The dark purple foliage of tradescantia in a bed of white sand provided a dramatic border for the pool and for a portion of the dry stream bed of white sand and Mexican pebbles that led away from the pool. Bonsai evergreens and thread-leaved maples growing in hollowed boulders of Featherrock were used as accents.

Rose Gardens

A crescent-shaped planting of Americana roses massed about a 15-foot-wide map of the United States in white sand faced the main entrance to the exhibit hall and was one of two gardens entered by the Jackson & Perkins Co., Newark, N. Y.

In the other J. & P. exhibit, some 35 rose varieties were displayed in a triangular garden constructed on two levels. A curving brick retaining wall separated the raised portion at the rear—where hybrid teas and floribundas were massed against a background of arborvitae and silver



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1 pt.	2.50	6 to case	9.00
1 qt.	4.50	6 to case	16.20

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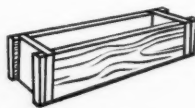
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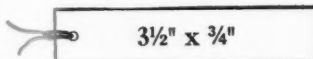
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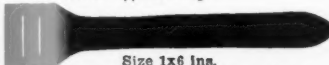
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birches—from the deep lawn at the fore of the display, with its hedges and beds of roses, including miniature varieties.

Vaughan's Seed Co., Chicago, used upright and spreading evergreens at the rear of its exhibit space as a foil for the brilliant color of tulips planted in borders along two sides of a triangular lawn. Textural variety was gained in the underplanting through the use of severed groundcovers, including Baltic ivy, ajugas and euonymus varieties.

A bridge 60 feet long spanning a central pool separated the two halves of the second-largest exhibit in the show and afforded viewers a vantage point from which to compare the contrasted gardens designed by Harold Klopp & Associate for Amling's Flowerland, Maywood, Ill., and Carson Pirie Scott & Co., Chicago department store. The ante bellum garden on one side of the bridge and the contemporary garden on the other, each of which was the setting for a wedding, demonstrated that landscape fashions have changed with the years as much as bridal fashions.

In the romantic garden of the past, steppingstone paths meandered across the lawn areas, and a pink and white theme was carried out in the informal borders and pool plantings with magnolias, rhododendrons, caladiums, azaleas, primroses and hydrangeas. In the contemporary garden, architectural lines as well as plantings were simplified for a cleaner look and easier maintenance. Sharper contrast was gained with the red and white azaleas that dominated the plantings.

The exhibit of the Chicago park district, covering the entire south wall of the main exhibit area depicted an Appalachian hillside in spring, crowned with specimen evergreens and covered with dogwoods, golden elderberry, forsythia, camellias, azaleas and other flowering trees and shrubs.

Water cascaded over outcropping rocks to a pool below, which was bordered with wild flowers, azaleas and ferns, with spring bulbs brightening the meadow on either side. The 8,500 square foot exhibit formed a spectacular setting for a stage, high above the floor, where choral groups performed at intervals.

Practical Garden Ideas

An innovation at this year's show that attracted much interest was the series of 14 idea gardens displayed as a group by members of the Better Gardening Association. These small gardens (10x15 feet) each demon-

strated a design treatment or combination of plant materials that could be duplicated in practically any home garden in the Chicago area.

Included were "Use of Broad-leaved Evergreens," by Clavey's Treeland, Highland Park; "A Garden in the Shade," by Glendale Nursery & Garden Mart, Glen Ellyn; "Garden with Ground Cover," by Oman's Flower Farm, Half Day; "A Japanese Garden," by Chalet Nursery & Garden Shop, Wilmette, and "Terrace Planting," by E. T. Will Garden Center, Berwyn.

Among the educational exhibits at the show was a large setting at the end of the main display area opposite the entrance, featuring masses of blooming plants from all over the world centered about an 8-foot globe, each group labeled with its country of origin. The display of the Morton Arboretum, Lisle, Ill., was devoted to ground cover plants, some 20 varieties being labeled with their sun or shade tolerance and shown in small demonstration plots and carpeting a raised planting of evergreen and deciduous shrubs.

PLAN AIRPORT PLANTING TO CUT JET NOISE

One and one-half million trees will deaden the noise of jet airplane engines at a new airport under construction near Washington, D. C., if an appropriation requested by the federal aviation agency is granted by Congress. The FAA has asked the government for funds that would enable it to purchase the trees and plant them in an 1,800-acre sound-absorbent belt around the huge new airfield, to be named Dulles International airport.

REMOVAL of the firm's stock from its growing location at Kingsport, Tenn., to a new location about five miles from the town, in an area called Hidden Valley, is announced by Sydney W. Macbeth, proprietor. The new site consists of about 28 acres and will be given the name Hidden Valley Nursery.

ELECTED recently to the board of directors of the Northern Westchester National bank, Chappaqua, N. Y., was Louis Weinstock, Poundridge Nurseries, Inc., Pound Ridge, N. J.

CONSTRUCTION of Pulliam's Nursery & Garden Supply Store, located on D. P. road, Los Alamos, N. M., was scheduled for completion for an April 1 grand opening. John Pulliam is the owner.

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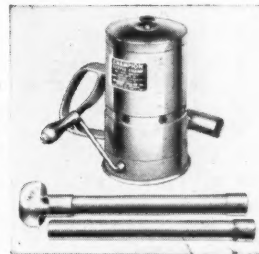
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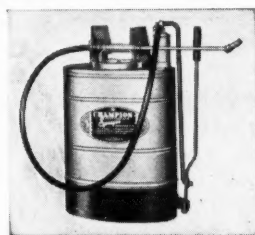
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TWO Little Champs

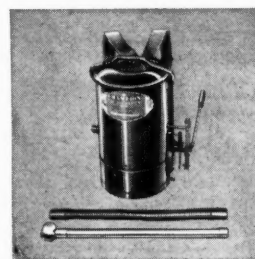
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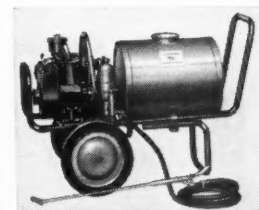


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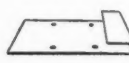
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Verticillium Wilt

Affects Many

Ornamental Plants

Reported by Barry Benjamin

Verticillium wilt affects more kinds of ornamental plants than any other one disease; over 130 species are susceptible. This and the details that follow were brought out in a discussion of the widespread disease given by Dr. J. C. Carter, Illinois Natural History Survey, Urbana, during arborists' day at the recent Ohio short course, which was reported in the February 15 issue.

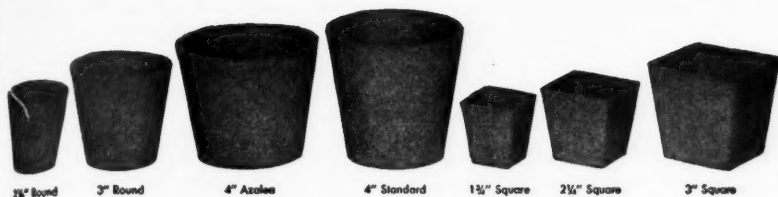
Although some affected trees are killed, noted Dr. Carter, the disease does not kill so high a proportion of affected trees as is killed by Dutch elm disease, phloem necrosis or oak wilt. The disease was first described on maples in 1914, but it was found that the fungus caused wilting of other plants also.

Affected trees and shrubs may show foliage wilt any time during the growing season. However, most affected plants wilt during late June, July or early August. On some trees, only one to a few branches wilt; on others, whole sections wilt, while on still others that are severely affected, all branches wilt, and death of the tree follows. Affected shrubs usually continue to wilt until the entire plant is dead. Some trees that show limited wilt may recover and not wilt in succeeding years.

Spread in Tree

Dr. Carter said that the fungus is a soil-inhabiting organism that can infect trees through wounded roots and stems. After entering the tree, it grows and spreads up the trunk and out into the branches through the water-conducting vessels of the sapwood, most frequently that of the current season. The water-conducting vessels through which the fungus spreads become discolored.

In a cross section of a branch, the discoloration may appear as a series of dots in a single wood ring; in some cases, the dots are so abundant that the entire wood ring appears discolored. Discoloration occurs most frequently in the springwood of the current season growth. In trees that wilt in early summer, the discoloration may not be noticeable when the branch wood is examined in cross section. However, this discoloration is usually conspicuous as



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Ctn. Wt. 30 lbs.	75,000 and up	6.00	
S-1700 B	3,000 to 27,000	8.60	
2 1/4-in. Round	30,000 to 72,000	8.00	3000
Ctn. Wt. 44 lbs.	75,000 and up	7.40	
S-1700 C	2,000 to 26,000	10.80	
2 1/4-in. Square	28,000 to 72,000	9.90	2000
Ctn. Wt. 39 lbs.	74,000 and up	9.00	
S-1700 D	1,000 to 14,000	14.90	
3-in. Round	15,000 to 35,000	13.90	1000
Ctn. Wt. 27 lbs.	36,000 and up	12.90	
S-1700 E	1,000 to 9,000	18.90	
3-in. Square	10,000 to 24,000	17.50	1000
Ctn. Wt. 30 lbs.	25,000 and up	16.10	
S-1700 F	500 to 4,500	29.75	
4-in. Round Std.	5,000 to 12,000	27.75	500
Ctn. Wt. 30 lbs.	12,500 and up	25.75	
S-1700 G	500 to 4,500	29.75	
4-in. Round Azalea	5,000 to 12,000	27.75	500
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Ctn. Wt. 36 lbs.	75,000 and up	6.50	
S-1705 B	2,500 to 27,500	8.10	
2 1/4-in. Square	30,000 to 72,500	7.60	2500
Ctn. Wt. 40 lbs.	75,000 and up	7.00	
S-1705 C	1,250 to 15,000	13.30	
3-in. Round	16,250 to 35,000	12.30	1250
Ctn. Wt. 27 lbs.	36,250 and up	11.30	
S-1705 D	1,200 to 9,600	15.50	
3-in. Square	10,800 to 24,000	14.50	1200
Ctn. Wt. 38 lbs.	25,200 and up	13.50	

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fine streaks on the surface of the wood when the bark is carefully peeled from a wilting branch. The outer surface of sapwood on trunks may be discolored.

In many wilting trees the discoloration in the sapwood may be abundant and extend to the tips of wilting branches, while in other wilting trees the discoloration may be limited to the trunk sapwood or it may extend only a few inches into the basal part of wilting branches. In large trees an increment borer may

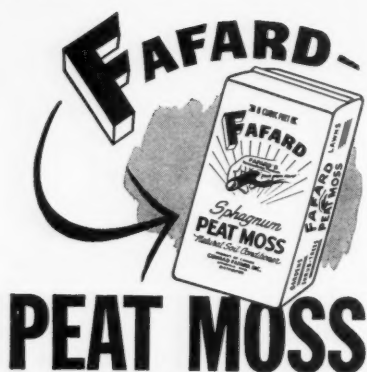
be used to detect discoloration in infected trees. The darkened area is usually located about one-half inch inward from the bark. The color of the diseased wood is light to dark brown in many species of trees and shrubs; however, in other plants the color may vary.

Wilt Control

Dr. Carter advised the following treatments for the control of verticillium wilt. Affected plants should be given fertilizer and water to

stimulate vigorous growth. The damage from the disease is more severe under drought conditions than where there is an adequate supply of water available to the plant. However, some affected trees and probably many affected shrubs may not respond to this treatment.

Experimental work has indicated that applications of ammonium sulphate, cyanamide, Milorganite, Nugreen or a 6-8-7 fertilizer aided maples to recover from the disease. In addition to feeding and watering,



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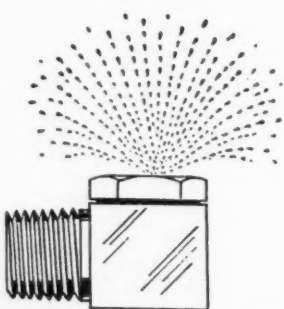
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one should remove all dead and dying branches or deadwood on branches showing wilt. However, it is advisable not to remove live branches or twigs on which the leaves are wilting or have recently wilted. Many branches that show wilt may not die but may produce a new crop of leaves three or four weeks after wilting has occurred or by the following spring.

Pruning will not eliminate the fungus that is present in the trunks and roots of affected trees and shrubs. In closing, Dr. Carter emphasized that infected plants should not be pruned until the year after the wilt first appears, in order to see which branches are dead and which may have recovered. Providing the tree with the elements necessary for good growth will increase the chances of the plant to overcome the wilt.

NEBRASKA NEWCOMERS

The University of Nebraska, through its North Platte experiment station, announces the release of five new chrysanthemum varieties under the name of Space Age mums. According to the announcement, they are fully double quills and spoons, with individual flowers that range from four to seven inches in diameter borne singly on stems long enough for cutting.

The separate varieties are described briefly by the experiment station as follows: Ad Astra (quill) four to seven inches in diameter, dusty rose, 24 inches tall; Asteroid (quill), four to five inches in diameter, bright yellow, 20 inches tall; Astronaut (quilled petals with tiny spoon tips), four to seven inches in diameter, bright orange, 18 inches tall; Apogee (spoon), four to five inches in diameter, deep lavender, 26 inches tall, and Starfall (spoon), four to six inches in diameter, red bronze, 30 inches tall.

Prairie Dusk, a new blue-purple penstemon developed by the University of Nebraska, was released recently to growers of perennials. The result of several years of breeding work that has combined the germ plasm of three native penstemons, Prairie Dusk is an everblooming hardy perennial reaching a height of about two feet. Its parent species, native to the plains and mountains, give it resistance to drought and unfavorable weather conditions.

According to the university's description, Prairie Dusk blooms from June until October if spent flowering stalks are removed. Many stiff, upright stems rise from an attractive

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basal clump of persistent, dark green foliage. Flowers are borne in rather dense spikes and are deep purple blue in color. A relative of the common snapdragon, it resembles that plant in flowering habit. The clone is readily increased by cuttings and divisions.

Anyone wishing further information about the releases should write to Glenn Viehmeyer, North Platte experiment station, University of Nebraska, North Platte, Neb.

REBUILD EASTERN CENTER

The completion of extensive remodeling and expansion work was recently celebrated at Ward's Nursery & Garden Center, Great Barrington, Mass., with a 2-day grand opening of the nursery's greatly increased facilities. Owner-operators Donald J. Ward, Jr., and Matthew Tomich, with the aid of their staff, did most of the remodeling and new construction work themselves, incorporating two existing greenhouses into the revised design.

Besides removing two partitions in the front greenhouse, making one large display area out of three small rooms, the nursery owners tore down a small potting shed and constructed in its place a steel and cinder block building of 4,200 square feet connecting the front and back greenhouses. A new concrete block potting shed containing more than 2,000 square feet of work and storage area on two floors was built onto the back of the second greenhouse.

The large 2-story building between the greenhouses provides 2,100 square feet of sales and display area on the first floor, together with a small office. The second floor, expected to be ready for use in spring, will house an auditorium, a landscape design office and two large storage areas. The auditorium, complete with motion picture facilities, will be used for garden club meetings and for a proposed educational program.

At the north end of the main building, the sales room opens onto an outdoor plant area, and large overhead doors at the south end provide easy access for trucks from a driveway.

Controlled from the first floor office, an intercommunication system will be used to contact workmen in any part of the nursery or to pipe music throughout the establishment.

Taking advantage of the increased sales space, the garden center proprietors have added several new lines to their stock, including garden tools, bird feeders and supplies for floral arrangements.

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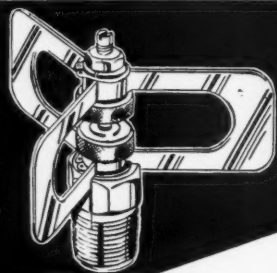
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PLANT PATENTS

The following plant patents were
granted recently, according to
Rummel & Snow, Chicago patent
attorneys:

No. 1988. Camellia plant. To Herbert
C. Swim, Ontario, Calif., assignor to
Armstrong Nurseries, Inc., Ontario. A
new and distinct variety of camellia plant,
characterized particularly as to novelty
by the unique combination of a vigor-
ous, upright, well-branched, relatively
compact plant habit; attractive, dark
green, glossy foliage, ranging in size from
small to medium; good sun-hardiness; a
very floriferous habit, with the flowers
borne both laterally on many shoots and
terminally; a relatively precocious bloom-
ing habit; the single form of the flowers,
said flowers essentially having six petals
each, with the petals of the outer layer
being somewhat shorter than the others;
a distinctive pale pink general color tonal-
ity of the flowers; a blooming period rang-
ing from midseason to late and extend-
ing over a period of approximately two
months or more, and a habit of dropping
the old flowers cleanly in their respective
entireties.

No. 1989. Strawberry plant. To Charles
C. Brunes, Pequot Lakes, Minn. A new
and distinct variety of everbearing
strawberry plant, characterized by a very
sweet, nonacid flavor of the fruit, said
fruit having very firm flesh throughout,
a uniform and intense darkish red ex-
terior color within the range described
herein, substantially no core and an inter-
ior color only slightly lighter than said
external color within the color range de-
scribed, said plant being hardy, with
heavy root structure and long runners
which mature quickly and bear well
throughout the growing season, the fruit
having unusually long stems, and said
plants bearing substantially continuously
throughout the season and producing a
full and excellent yield.

No. 1990. Rose plant. To O. L. Weeks,
Chino, Calif., assignor to Constance A.
Elmer, San Gabriel, Calif. A new and dis-
tinct variety of rose plant of the climbing
floribunda class, characterized particu-
larly as to novelty by its general similarity
to its parent variety Carrousel (plant
patent No. 1066), but being principally
distinguished therefrom by its vigorous
and upright-climbing habit.

No. 1991. Rose plant. To Gordon J.
Von Abrams, Portland, Ore., assignor to
Eldon Pinkney Dering, Scappoose, Ore.
A new and distinct variety of compact
bush-type floribunda rose plant, having
cymose clusters of medium-size, compact
flowers, blooming abundantly and con-
tinuously outdoors during the growing
season, and characterized particularly by
a special combination of flower form and
color and by the unique pattern and se-
quence of the flower color during matu-
ration and senescence.

No. 1992. Pear tree. To Harold L. Geb-
hard, deceased, and Edward W. Gebhard,
deceased, both late of Medford, Ore., by
Lucille M. Gebhard, Central Point, Ore.,
and Marjorie A. Grigsby, Medford, ex-
ecutors. A new and distinct variety of
pear tree, distinguished principally from
its parent, the Anjou, by the over-all dark
red coloring of the fruit skin.

No. 1993. Pineapple plant. To Kenneth

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R. Kerns, Wahiawa, Hawaii, and Julius Lloyd Collins, Alpine, Calif., assignors to Pineapple Research Institute of Hawaii, Honolulu. A new and distinct variety of pineapple plant, characterized particularly as to novelty by its general internal fruit characteristics resembling the Red Spanish parent and the yield characteristics of the larger-yielding Cayenne parent. In addition, the new variety has extreme resistance to heat and root rot caused by the fungus *Phytophthora cinamomi*.

No. 1994. Apple tree. To Will Mills Dalton, deceased, late of Hendersonville, N. C., by William Edward Dalton, administrator, Hendersonville, assignor, by mesne assignments, to said William Edward Dalton. A new and distinct variety of apple tree, characterized particularly as to novelty by the unique combination of a semidwarf and open habit of tree growth; a habit of branch scaffolding at relatively close intervals, with consequent need of little or no pruning; a ripening season approximating that of Rome Beauty (unpatented); a subacid fruit flavor; dark red fruit color somewhat resembling that of Double Red Stayman (unpatented), and good scab resistance of both the fruit and foliage.

No. 1995. Chrysanthemum plant. To Eugene S. Boerner, Newark, N. Y., assignor to Jackson & Perkins Co., Newark. A new and distinct variety of chrysanthemum plant of the decorative, flat class, characterized particularly as to novelty by the unique combination of a vigorous and stiff-stemmed plant habit, large flower size, a decorative flat flower form and a distinctive apricot-yellow, lightly overcast with empire yellow, general color tonality of the flowers.

No. 1996. Chrysanthemum plant. To Eugene S. Boerner, assignor to Jackson & Perkins Co. A new and distinct variety of chrysanthemum plant of the decorative class, characterized particularly as to novelty by the unique combination of a general similarity to the variety Kingfisher (plant patent No. 1548); glossy, dark green foliage; a distinctive flower color corresponding to carmine, lightly overcast with spectrum red, and an unusual freedom of reproduction by suckers.

No. 1997. Chrysanthemum plant. To Eugene S. Boerner, assignor to Jackson & Perkins Co. A new and distinct variety of chrysanthemum plant of the decorative class, characterized particularly as to novelty by the unique combination of good plant strength and hardiness, an early-blooming habit, exceptionally good floriferousness and a distinctive scarlet, lightly overcast with scarlet red, general color tonality of the flowers.

No. 1998. Rose plant. To Eugene S. Boerner, assignor to Jackson & Perkins Co. A new and distinct variety of rose plant of the hybrid tea class, characterized particularly as to novelty by the unique combination of excellent hardiness, a free-blooming habit which results in the plant's being constantly in bloom and a distinctive and nonfading general color tonality of the flowers corresponding to tulip pink, lightly overcast with spinel pink.

All patents prior to plant patent No. 618 inclusive, have expired and become public property. Until the actual date of expiration, a plant patent excludes others than the patent holder from propagating as well as growing or selling the plant.

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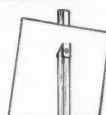
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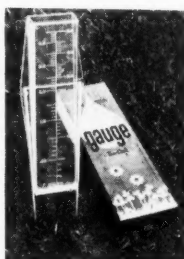
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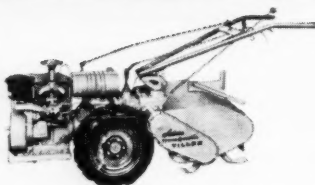
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GREENHOUSE HEATING AND CONSTRUCTION, by Harold E. Gray.
Articles reprinted from Florists' Review. 78 p. [1956]. **\$1.50.**
American Nurseryman, 343 S. Dearborn St., Chicago 4, Ill.

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COLORADO AWARD WINNER

A former government worker who started a sideline backyard nursery only nine years ago received the first annual special award of the Colorado Nurserymen's Association for outstanding contributions to the nursery industry. Harry Swift, owner of Western Evergreens nursery, Golden, Colo., received the award during the association's annual convention and short course last January at Colorado State University, Fort Collins, as reported in the March 1 issue of this magazine.

President Kenneth Wilmore, who presented the award, credited Mr. Swift with making the greatest strides of anyone in Colorado in propagating and growing native and commercially hard-to-get plant materials.

A graduate of the College of Emporia and Kansas University, Mr. Swift started experimenting with native plant materials while working for the federal railroad retirement board and later the bureau of census. Six years ago, he moved his backyard plantings to his present location at Golden and became a full-time nurseryman.

He has tried all the natives from the east slope of the Sierras through Colorado at one time or another, Mr. Swift says. He propagates by seeds 99 per cent of the time and has acquired a vast amount of first-hand knowledge about planting requirements, cultural needs and wintering characteristics of the natives.

Biggest problems, he has discovered, are finding the seeds at the proper time for propagation, germinating the seed and correct watering.

Mr. Swift, who has a reputation for willingly sharing his findings with other nurserymen, is also quick to give credit to others in the field who have helped him — George Kelly, of the Cottonwood Garden Shop, Littleton, Colo.; William Lucking, of the Denver city park museum, and Dr. A. C. Hildreth, director of the Denver Botanic Gardens.

Among the natives which Mr. Swift has successfully propagated are the 3-leaved sumac, chokecherry, mountain mahogany and two varieties of native birch, all now in quantity production; and native alder, maple, sages, sedum, yuccas, dwarf mahonia, apache plume and others. B. S.

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